

NANMINDA HSS, NANMINDA
NANMINDA PO, KOZHIKODE– 673613

COMPUTER APPLICATION



Practical Record Book

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Teacher in Charge

Exam Date:

External Examiner:

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Section I

C++ PROGRAMMING



Exp. No. 1

Date:

AIM:

Program to check the given number is positive, negative or zero

SOURCE CODE:

```
#include<iostream>
using namespace std;
int main()
{
    int n;
    cout<<"Enter a number";
    cin>>n;
    if(n>0)
        cout<<"The number is positive";
    else if(n<0)
        cout<<"The number is negative";
    else
        cout<<"The number is Zero";
    return 0;
}
```



OUTPUT:

```
Enter a number
-45
The number is negative
```

AIM:

Input the principal amount, type of account (C for current a/c or S for SB a/c) and number of years, and display the amount of interest. Rate of interest for current a/c is 8.5% and that of SB a/c is 6.5%.

SOURCE CODE:

```
#include<iostream>
using namespace std;
int main( )
{
    int p,n;
    float i,rate;
    char ac;
    cout<<"Enter the Principle amount : ";
    cin>>p;
    cout<<"Enter the number of years : ";
    cin>>n;
    cout<<"Enter the type of account c for current or s for Savings Bank : ";
    cin>>ac;
    switch(ac)
    {
        case 'c' :
        case 'C' :
            rate = 8.5;
            i=p*n*rate/100;
            cout<<"Interest = "<<i<<"\n";
            break;

        case 's' :
        case 'S' :
            rate = 6.5;
            i=p*n*rate/100;
            cout<<"Interest = "<<i<<"\n";
            break;

        default :
            cout<<"Invalid input ";
    }
    return 0;
}
```

**OUTPUT:**

```
Enter the Principle amount : 1000
Enter the number of years : 5
Enter the type of account c for current or s for Savings Bank : c
Interest = 425
```

AIM:

Find the area of a rectangle, a circle and a triangle. Use switch statement for selecting an option from a menu.

SOURCE CODE:

```
#include<iostream>
using namespace std;
int main()
{
    int ch,l,w,r,b,h;
    float area;
    cout<<"1.Area of Rectangle"<<"\n";
    cout<<"2.Area of Circle"<<"\n";
    cout<<"3.Area of Triangle"<<"\n";
    cout<<"Enter your choice : ";
    cin>>ch;
    switch(ch)
    {
        case 1:      cout<<"Enter the Length and Width ";
                     cin>>l>>w;
                     area=l*w;
                     cout<<"Area of Rectangle = "<<area;
                     break;
        case 2:      cout<<"Enter the radius ";
                     cin>>r;
                     area=3.14*r*r;
                     cout<<"Area of Circle = "<<area;
                     break;
        case 3:      cout<<"Enter the base and height ";
                     cin>>b>>h;
                     area=0.5*b*h;
                     cout<<"Area of Triangle = "<<area;
                     break;
        default :    cout<<"Invalid Input";
    }
    return 0;
}
```

**HSSLIVE.IN****OUTPUT:**

```
1.Area of Rectangle
2.Area of Circle
3.Area of Triangle
Enter your choice : 1
Enter the Length and Width 10 12
Area of Rectangle = 120
```

AIM:

Program to Find the sum of the digits of an integer number.

SOURCE CODE:

```
#include<iostream>
using namespace std;
int main()
{
    int n,rem,s=0;
    cout<<"Enter a number ";
    cin>>n;
    while(n>0)
    {
        rem=n%10;
        s=s+rem;
        n=n/10;
    }
    cout<<"Sum = "<<s;
    return 0;
}
```

OUTPUT:

Enter a number 238
Sum = 13



HSSLiVE.IN

AIM:

Display the multiplication table of a number having 12 rows.

SOURCE CODE:

```
#include<iostream>
using namespace std;
int main()
{
    int n,i;
    cout<<"Enter a number ";
    cin>>n;
    for(i=1;i<=12;i++)
    {
        cout<<i<<"*"<<n<<"="<<n*i;
        cout<<"\n";
    }
    return 0;
}
```

OUTPUT:

Enter a number 2

1*2=2

2*2=4

3*2=6

4*2=8

5*2=10

6*2=12

7*2=14

8*2=16

9*2=18

10*2=20

11*2=22

12*2=24

**HSSLiVE.IN**

AIM:

Find the sum of the squares of the first N natural numbers without using any formula

SOURCE CODE:

```
#include<iostream>
using namespace std;
int main()
{
    int n,sum=0,i;
    cout<<"Enter a digit ";
    cin>>n;
    for(i=0;i<=n;i++)
    {
        sum=sum+i*i;
    }
    cout<<"Sum of the squares = "<<sum;
    return 0;
}
```



HSSLiVE.IN

OUTPUT:

Enter a digit 5
Sum of the squares = 55

AIM:

Find the length of a string without using strlen() function

SOURCE CODE:

```
#include<iostream>
#include<cstdio>
using namespace std;
int main( )
{
    char name[1000];
    int count=0;
    cout<<"Enter the String \n";
    gets(name);
    while(name[count]!='\0')
    {
        count ++;
    }
    cout<<"The length of the string is  "<<count;
    return 0;
}
```

**OUTPUT:**

```
Enter the String
computer application
The length of the string is  20
```

AIM:

Find the highest and lowest prices of text books among a set of values.

SOURCE CODE:

```
#include <iostream>
using namespace std;
int main()
{
    int num[15],i,n,high,low;
    cout<<"Enter the number of text books : \n";
    cin>>n;
    for(i=0;i<n;i++)
    {
        cout<<"\n Enter the price : ";
        cin>>num[i];
    }
    high = num[0];
    low = num[0];
    for(i=1;i<n;i++)
    {
        if(high < num[i])
            high = num[i];
        if(low > num[i])
            low = num[i];
    }
    cout<<"\n Highest Price : "<<high<<"\n";
    cout<<"\n Lowest Price : "<<low<<"\n";
    return 0;
}
```

**HSSLiVE.IN****OUTPUT:**

Enter the number of text books :

3

Enter the price : 210

Enter the price : 315

Enter the price : 274

Highest Price : 315

Lowest Price : 210

AIM:

Find Simple Interest and Compound Interest using functions.

SOURCE CODE:

```
#include<iostream>
#include<cmath>
using namespace std;
float simple(int,int,float);
float compound(int,int,float);
int main()
{
    int p,n;
    float r,si,ci;
    cout<<"\n Enter the Principal amount : ";
    cin>>p;
    cout<<"\n Enter the number of years : ";
    cin>>n;
    cout<<"\n Enter the rate of interest : ";
    cin>>r;
    si = simple(p,n,r);
    ci = compound(p,n,r);
    cout<<"\n Simple interest : "<<si;
    cout<<"\n Compound interest : "<<ci;
    cout<<"\n";
    return 0;
}
float simple(int p, int n, float r)
{
    float s;
    s = p*n*r/100;
    return s;
}
float compound(int p, int n, float r)
{
    float c;
    c = p*pow((1+r/100),n)-p;
    return c;
}
```

**HSSLiVE.IN****OUTPUT:**

Enter the Principal amount : 1000

Enter the number of years : 2

Enter the rate of interest : 6.5

Simple interest : 130

Compound interest : 134.225

AIM:

Define a function to swap the contents of three variables.

SOURCE CODE:

```
#include<iostream>
using namespace std;
void swap(int &, int &);
int main( )
{
    int a,b,c;
    cout<<"\n Enter the values of a,b,c \n";
    cin>>a>>b>>c;
    cout<<"\n The values of a,b,c before swapping are :";
    cout<<a<<"\t"<<b<<"\t"<<c;
    swap(a,b);
    swap(a,c);
    cout<<"\n The values of a,b,c after swapping are :";
    cout<<a<<"\t"<<b<<"\t"<<c;
    cout<<"\n";
    return 0;
}
void swap(int &x, int &y)
{
    int t;
    t=x;
    x=y;
    y=t;
}
```

**OUTPUT:**

Enter the values of a,b,c

25
35
62

The values of a,b,c before swapping are :25 35 62

The values of a,b,c after swapping are :62 25 35

Section II

HTML AND JAVASCRIPT



HSSLiVE.IN

AIM:

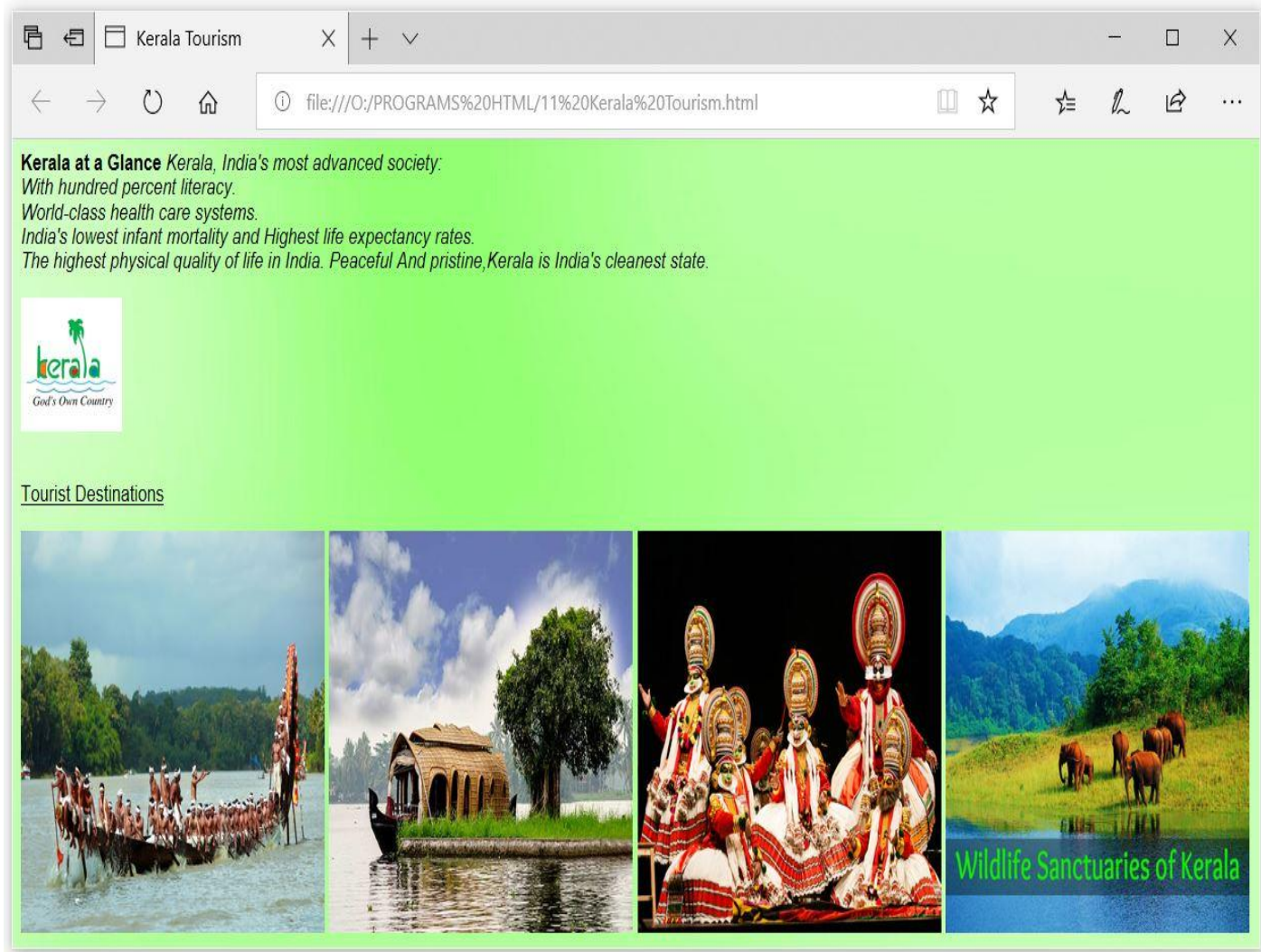
Design a simple and attractive webpage for Kerala Tourism. It should contain features like background image, heading, text formatting and font tags, images, etc.

SOURCE CODE:

```
<HTML>
<HEAD>
<TITLE>Kerala Tourism</TITLE></HEAD>
<BODY background="kerala.jpg">
<font face=Arial>
<B>Kerala at a Glance</B>
<I>Kerala, India's most advanced society: <BR>With hundred percent literacy.<BR>World-
class health care systems. <BR>India's lowest infant mortality and Highest life expectancy
rates.<BR> The highest physical quality of life in India. Peaceful And pristine, Kerala is India's
cleanest state.</I>
<BR><BR>
<IMG Src="logo.jpg" width =100 height=100>
<BR><BR><BR>
<U>Tourist Destinations</U>
<BR><BR>
<IMG Src="boat.jpg"width =300 height=300>
<IMG Src="houseboat.jpg"width =300 height=300>
<IMG Src="kathakali.jpg" width =300 height=300>
<IMG Src="wild.jpg" width =300 height=300>
<BR>
</BODY>
</HTML>
```



OUTPUT:



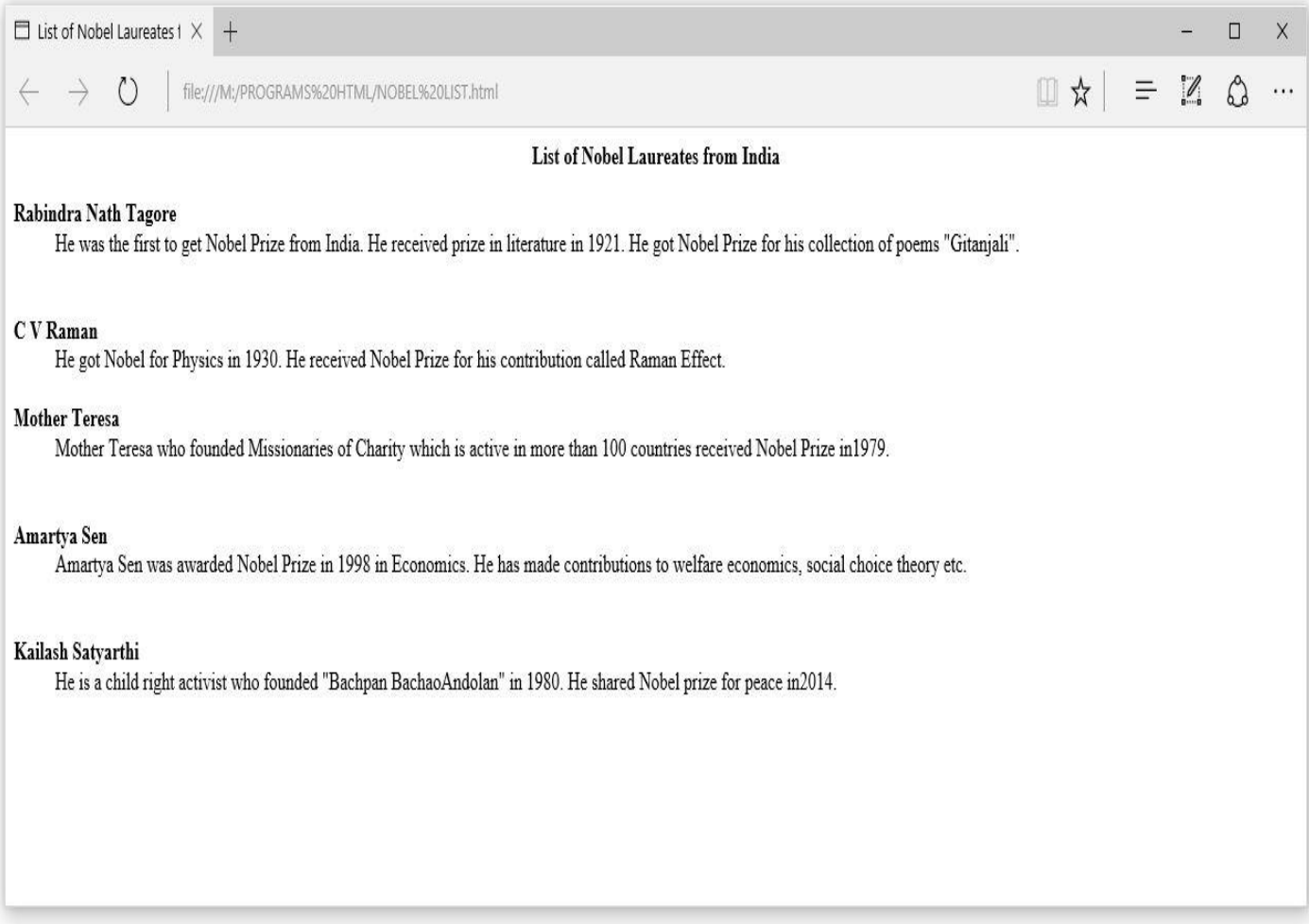
AIM:

To create a definition list using HTML.

SOURCE CODE:

```
<HTML>
<HEAD>
<TITLE>List of Nobel Laureates from India</TITLE></HEAD>
<BODY >
<CENTER><B>List of Nobel Laureates from India</B></CENTER>
<BR>
<DT><B>Rabindra Nath Tagore</B></DT>
<DD>He was the first to get Nobel Prize from India. He received
Prize in literature in 1921. He got Nobel Prize for his collection
Ofpoems “Gitanjali”.</DD>
<BR><BR>
<DT><B>C V Raman</B></DT>
<DD>He got Nobel for Physics in 1930. He received Nobel Prize for his contribution called Raman Effect.
</DD>
<BR><BR>
<DT><B>Mother Teresa</B></DT>
<DD>Mother Teresa who founded Missionaries of Charity which is active in more than 100 countries
received Nobel Prize in1979. </DD>
<BR><BR>
<DT><B>Amartya Sen</B></DT>
<DD>Amartya Sen was awarded Nobel Prize in 1998 in Economics. He has made contributions to welfare
economics, social choice theory etc.</DD>
<BR><BR>
<DT><B>Kailash Satyarthi</B></DT>
<DD>He is a child right activist who founded “Bachpan Bachao Andolan” in 1980. He shared Nobel Prize
for peace in2014. </DD>
</BODY>
</HTML>
```

OUTPUT:



AIM:

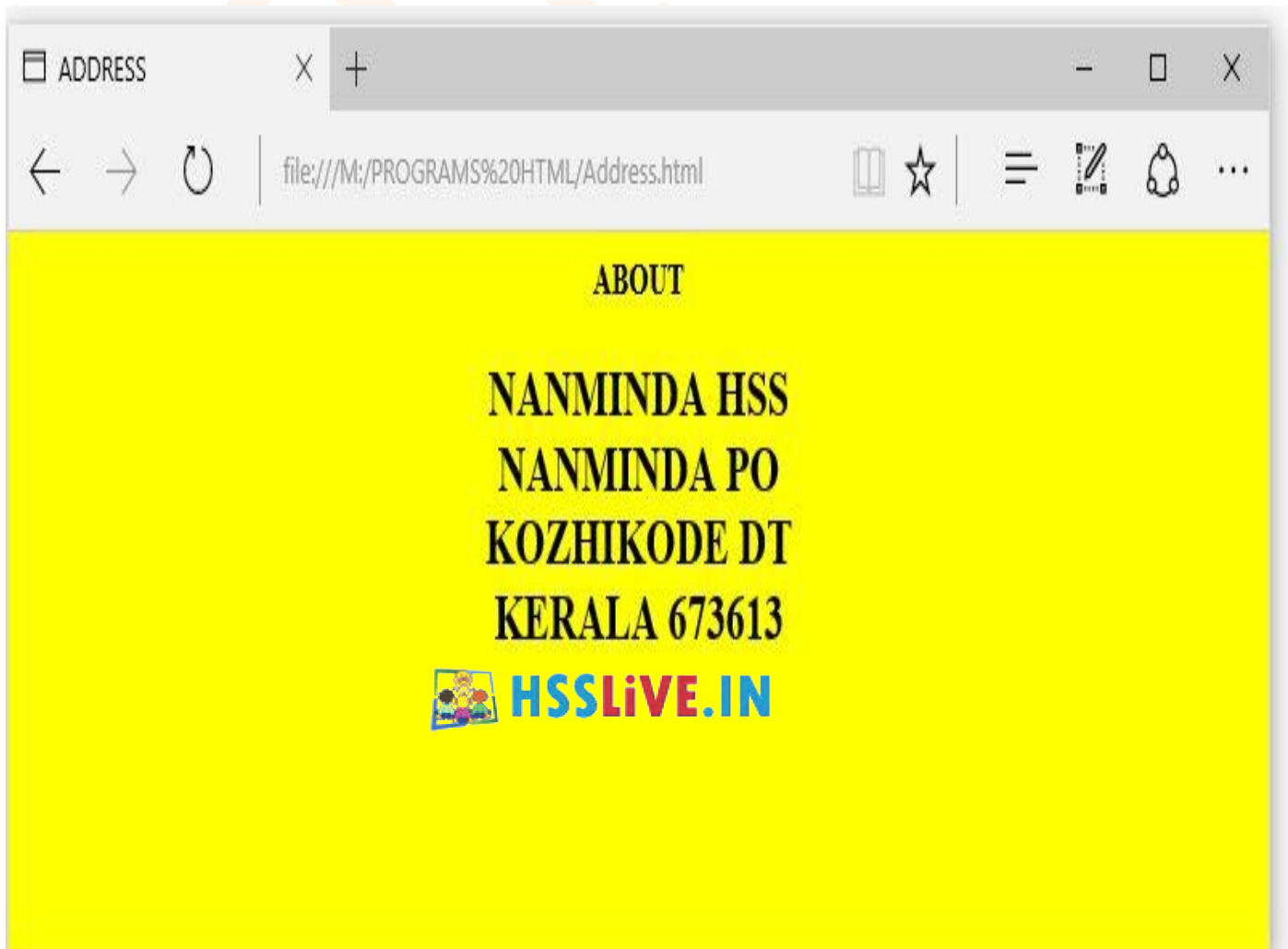
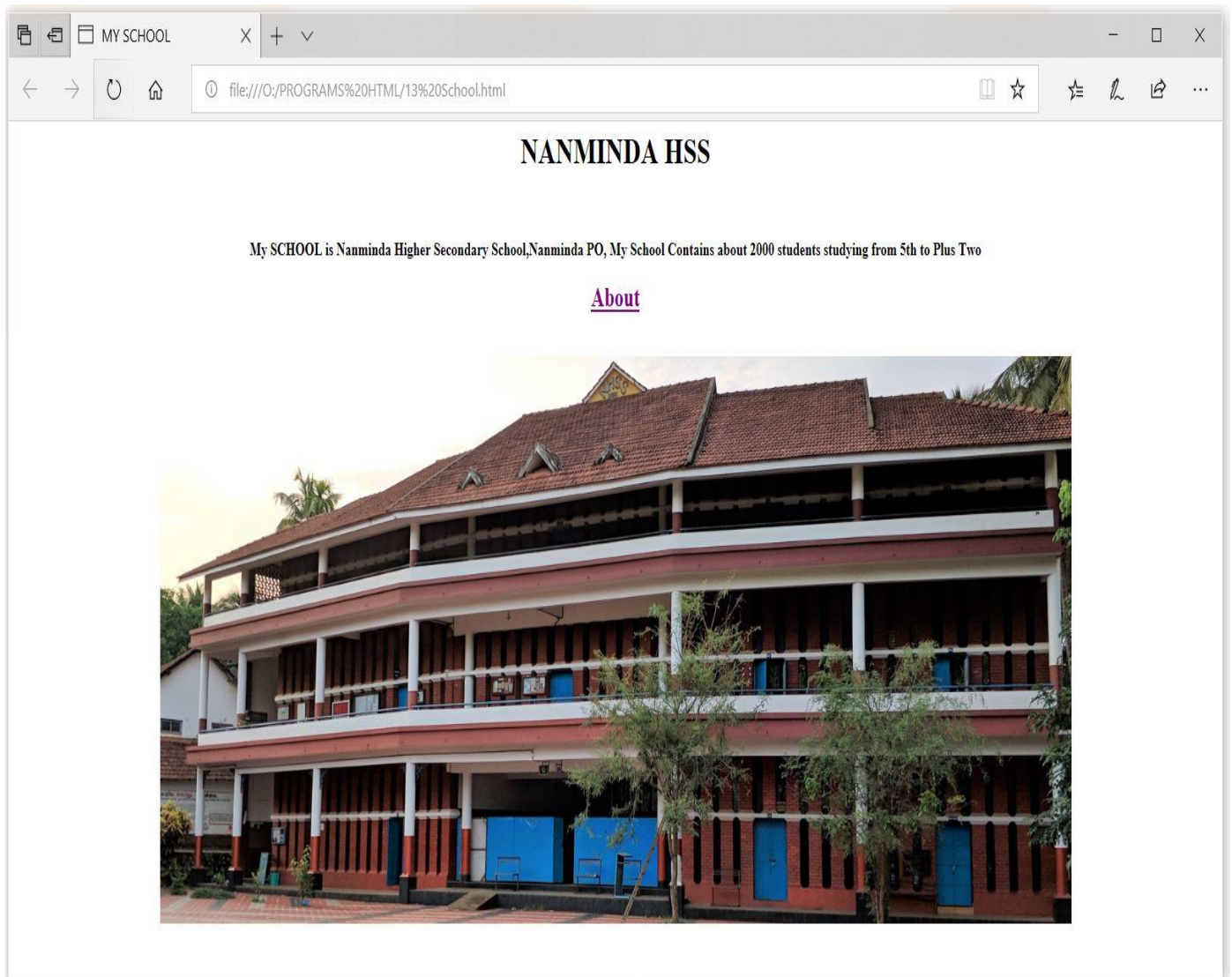
Design a simple webpage about your school. Create another webpage named address.html containing the school address. Give link from school page to address.html

SOURCE CODE:**School.html**

```
<HTML>
<HEAD>
<TITLE>MY SCHOOL</TITLE>
</HEAD>
<BODY>
<CENTER>
<H1>NANMINDA HSS</H1><BR><BR>
<B>My SCHOOL is Nanminda Higher Secondary School,Nanminda PO, My School Contains about 2000
students studying from 5th to Plus Two</B><BR>
<H2><A Href="Address.html">About</A> </H2>
<BR>
<IMG Src="SCHOOL.jpg" width = 1200 height = 500>
<BR><BR>
</CENTER>
</BODY>
</HTML>
```

**Address.html**

```
<HTML>
<HEAD>
<TITLE>ADDRESS</TITLE>
</HEAD>
<BODY bgcolor=yellow>
<CENTER>
<B>ABOUT</B>
<BR>
<H2>NANMINDA HSS<BR>NANMINDA PO<BR>KOZHIKODE DT<BR>KERALA 673613<BR>
</H2>
</CENTER>
</BODY>
</HTML>
```

OUTPUT:

AIM:

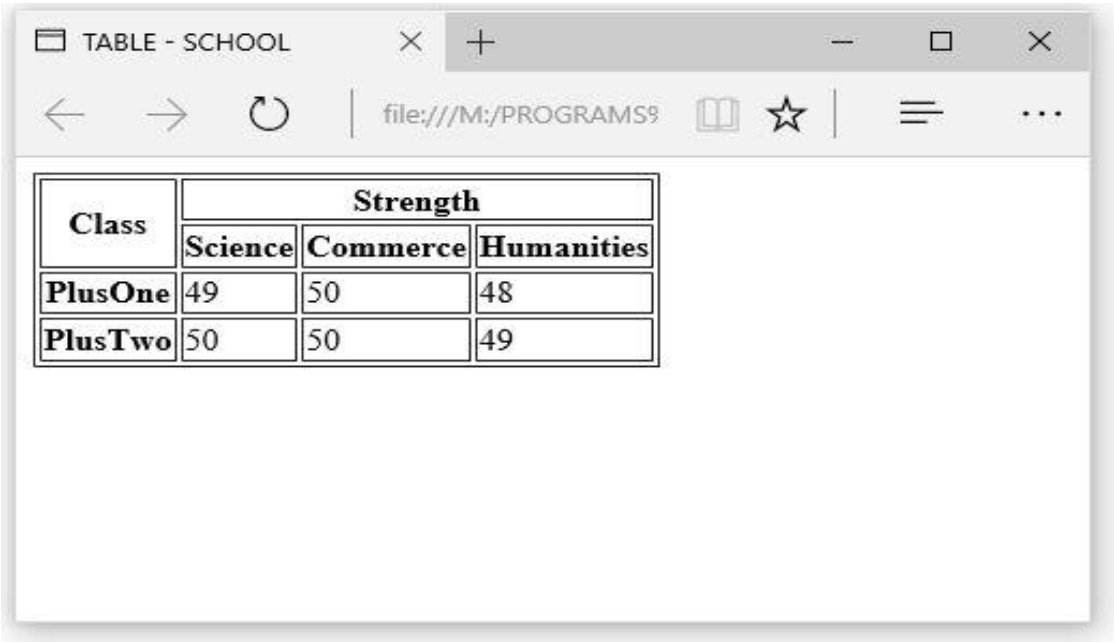
Design the following table using HTML

Class	Strength		
	Science	Commerce	Humanities
PlusOne	49	50	48
PlusTwo	50	50	49

SOURCE CODE:

```
<HTML>
<HEAD>
<TITLE>Table - School</TITLE>
</HEAD>
<BODY>
<TABLE BORDER="1">
<TR>
  <TH ROWSPAN="2">Class</TH>
  <TH colspan="3">Strength</TH>
</TR>
<TR>
  <TH>Science</TH>
  <TH>Commerce</TH>
  <TH>Humanities</TH>
</TR>
<TR>
  <TH>PlusOne</TH>
  <TD>49</TD>
  <TD>50</TD>
  <TD>48</TD>
</TR>
<TR>
  <TH>PlusTwo</TH>
  <TD>50</TD>
  <TD>50</TD>
  <TD>49</TD>
</TR>
</TABLE>
</BODY>
</HTML>
```

OUTPUT:



AIM:

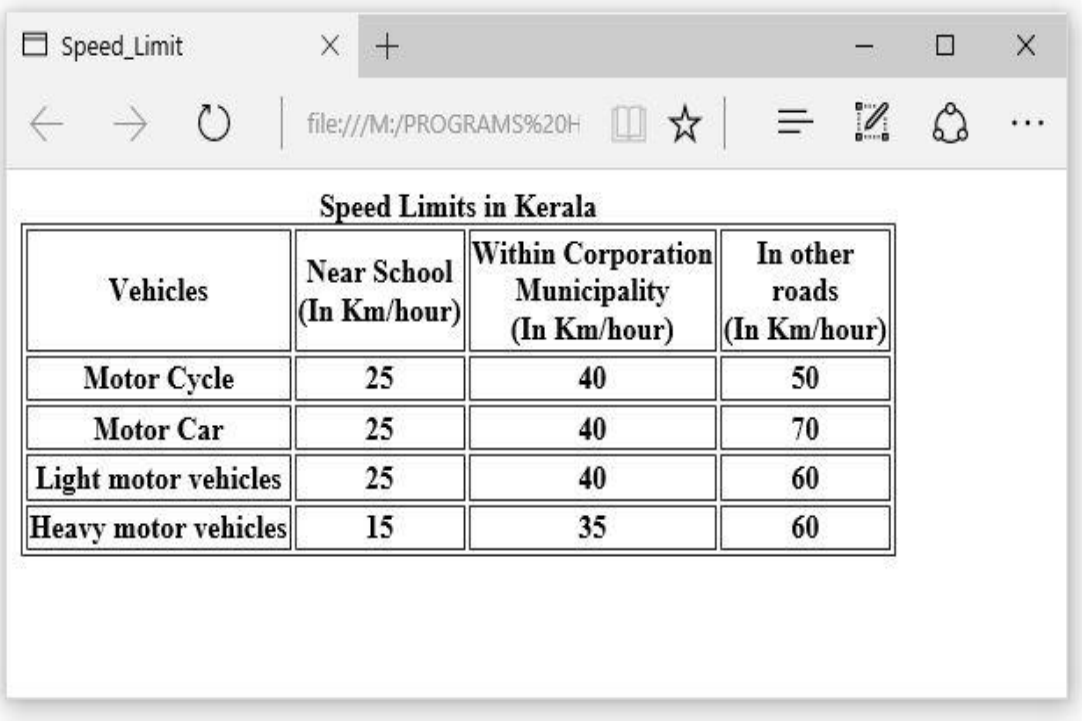
Design a web page containing a table as shown below

Speed Limits in Kerala			
Vehicles	Near School (In Km/hour)	Within Corporation/ Municipality (In Km/hour)	In other roads (In Km/hour)
Motor Cycle	25	40	50
Motor Car	25	40	70
Light motor vehicles	25	40	60
Heavy motor vehicles	15	35	60

SOURCE CODE:

```
<HTML>
<HEAD>
<TITLE>Speed_Limit</TITLE></HEAD>
<BODY>
<TABLE BORDER="1">
<CAPTION><B>Speed Limits in Kerala</B></CAPTION>
<TR>
<TH> Vehicles </TH>
<TH> Near School<BR> (In Km/hour) </TH>
<TH> Within Corporation
<BR> Municipality<BR> (In Km/hour) </TH>
<TH> In other<BR> roads<BR> (In Km/hour) </TH> </TR>
<TR>
<TH>Motor Cycle</TH>
<TH>25</TH>
<TH>40</TH>
<TH>50</TH></TR>
<TR>
<TH>Motor Car</TH>
<TH>25</TH>
<TH>40</TH>
<TH>70</TH></TR>
<TR>
<TH>Light motor vehicles</TH>
<TH>25</TH>
<TH>40</TH>
<TH>60</TH></TR>
<TR>
<TH>Heavy motor vehicles</TH>
<TH>15</TH>
<TH>35</TH>
<TH>60</TH></TR>
</TABLE>
</BODY>
</HTML>
```

OUTPUT:



AIM:

To demonstrate the concept of <FRAMESET> and <FRAME> Tags in HTML.

SOURCE CODE:**frame.html**

```
<HTML>
<HEAD><TITLE>Team_List</TITLE></HEAD>
<FRAMESET Cols=50%,50%>
<FRAME SRC="Cricket.html">
<FRAME SRC="Football.html">
</FRAMESET>
</HTML>
```

**Cricket.html**

```
<HTML>
<HEAD><TITLE>Cricket Team</TITLE></HEAD>
<body bgcolor=blue text=yellow>
<br><br>
<center><h1><u>Cricket Team</u></h1><br><br>
<h2>Rohit Sharma<br>Shikhar Dhawan<br>Virat Kohli(C)<br>
Mahendra Singh Dhoni (WK)<br>Kedar Jadhav<br>
Dinesh Karthik<br>Vijay Shankar<br>
Ravindra Jadeja<br>Bhuvneshwar Kumar<br>
Mohammed Shami<br>Yuzvendra Chahal</h2><br>
<img src ="bcci logo.jpg" height=200 width=200>
</center></body>
</HTML>
```

Football.html

```
<HTML>
<HEAD><TITLE>Football Team</TITLE></HEAD>
<body bgcolor=yellow text=blue>
<br><br>
<center><h1><u>Football Team</u></h1><br><br>
<h2>Gurpreet Singh (GK)<br>Anas Edathodika<br>Sandesh Jhingan<br>
Subashish Bose<br>Pritam Kotal<br>
Pronay Halder<br>Anirudh Thapa<br>
Halicharan Narzary<br>Udanta Singh<br>
Sunil Chhetri (C)<br>Ashique Kuruniyan</h2><br>
<img src ="aiff logo.jpg" height=200 width=200>
</center>
</body>
</HTML>
```


Team_List

file:///C:/Users/AJSAL/Desktop/16%20frame:

Cricket Team

Rohit Sharma
Shikhar Dhawan
Virat Kohli(C)
Mahendra Singh Dhoni (WK)
Kedar Jadhav
Dinesh Karthik
Vijay Shankar
Ravindra Jadeja
Bhuvneshwar Kumar
Mohammed Shami
Yuzvendra Chahal



Football Team

Gurpreet Singh (GK)
Anas Edathodika
Sandesh Jhingan
Subashish Bose
Pritam Kotal
Pronay Halder
Anirudh Thapa
Halicharan Narzary
Udanta Singh
Sunil Chhetri (C)
Ashique Kuruniyan



Prepared by
MUHAMMED AJSAL U J, NANMINDA HSS using the resources created by TCA GAFOOR, AKM HSS Kottoor

AIM:

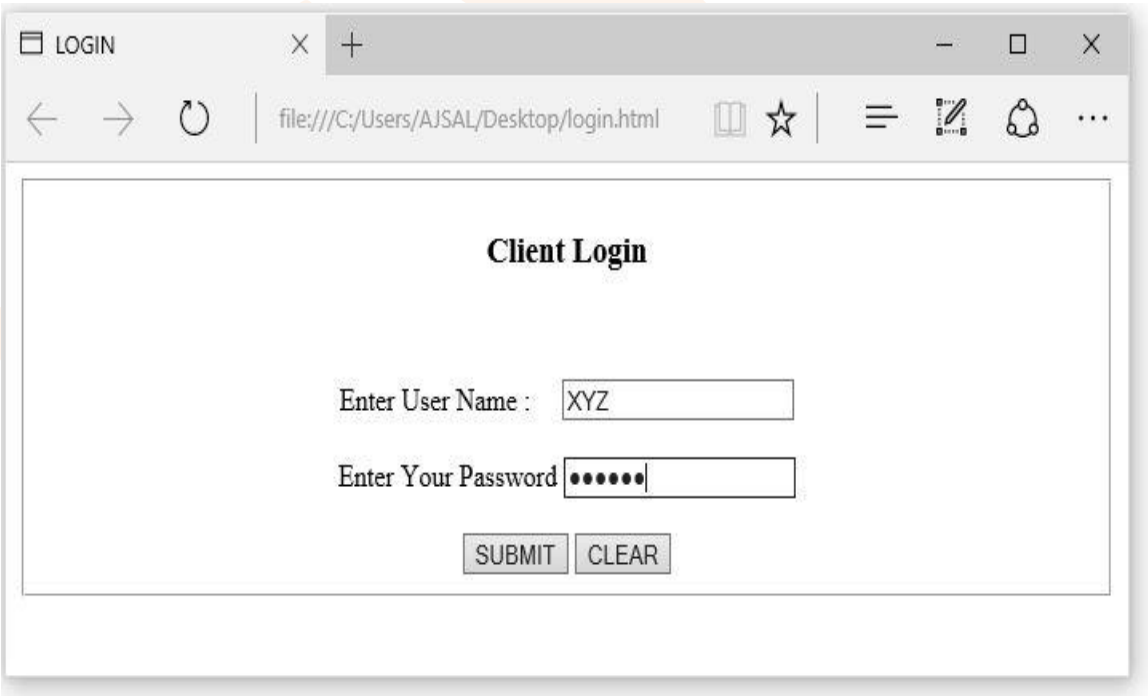
To create a client login form using HTML.

SOURCE CODE:



```
<HTML>
<HEAD><TITLE>LOGIN</TITLE></HEAD>
<BODY>
<CENTER>
<FORM>
<FIELDSET>
<h3>Client Login</h3><br><br>
Enter User Name : &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<INPUT Type="Text"><br><br>
Enter Your Password <INPUT Type="Password"><br><br>
<INPUT Type="Submit" value="SUBMIT">
<INPUT Type="Reset" value="CLEAR">
</FIELDSET>
</FORM>
</CENTER>
</BODY>
</HTML>
```

OUTPUT:



To create a webpage to convert an input text to uppercase or lowercase based on the user selection by using HTML and JavaScript.

```
<HTML>
<HEAD><TITLE>String Conversion</TITLE>
<SCRIPT Language="JavaScript">
function upper()
{
    var txt,ctxt;
    txt=document.frmconvert.txtString.value;
    ctxt=txt.toUpperCase();
    document.frmconvert.txtString.value=ctxt;
}
function lower()
{
    var txt,ctxt;
    txt=document.frmconvert.txtString.value;
    ctxt=txt.toLowerCase();
    document.frmconvert.txtString.value=ctxt;
}
</SCRIPT></HEAD>
<BODY>
<FORM Name="frmconvert">
<CENTER>Enter the String : <INPUT Type="text"
<BR><BR>
<INPUT Type="button" value="To Upper Case" o
<INPUT Type="button" value="To Lower Case" o
</CENTER>
</FORM>
</BODY>
</HTML>
```



•



The screenshot shows a web browser window with the title 'String Conversion'. The address bar displays the file path 'file:///M:/PROGRAMS%20HTML/18%20case5'. The page content features a text input field labeled 'Enter the String :' containing the text 'CONVERT'. Below the input field are two buttons: 'To Upper Case' (highlighted in blue) and 'To Lower Case' (highlighted in grey).



The screenshot shows a web browser window with the title 'String Conversion'. The address bar displays the file path 'file:///M:/PROGRAMS%20HTML/18%20case5'. The page content includes a text input field labeled 'Enter the String :' containing the text 'convert'. Below the input field are two buttons: 'To Upper Case' and 'To Lower Case'.

AIM:

To create a webpage for displaying the capitals of Indian states using HTML and JavaScript.

SOURCE CODE:

```
<HTML>
<HEAD><TITLE>Capital Of States</TITLE>
<SCRIPT Language="JavaScript">
function Capital()
{
    var n,answer;
    n=document.frmCapital.cboState.selectedIndex;
    switch(n)
    {
        case 0: answer="Thiruvananthapuram";
                break;
        case 1: answer="Bengaluru";
                break;
        case 2: answer="Chennai";
                break;
        case 3: answer="Mumbai";
                break;
    }
    document.frmCapital.txtCapital.value=answer;
}
</SCRIPT>
</HEAD><BODY>
<FORM Name="frmCapital">
<CENTER>State:
<SELECT Name="cboState">
<OPTION>Kerala</OPTION>
<OPTION>Karnataka</OPTION>
<OPTION>Tamilnadu</OPTION>
<OPTION>Maharashtra</OPTION>
</SELECT>
<BR><BR>
Capital:
<INPUT Type="Text" Name="txtCapital">
<BR><BR>
<INPUT Type="Button" value="Show" onClick="Capital()">
</CENTER>
</FORM>
</BODY>
</HTML>
```



OUTPUT:

Capital Of States

file:///M:/PROGRAMS%20HTML/19%20capit

State: Kerala

Capital: Thiruvananthapuram

Show

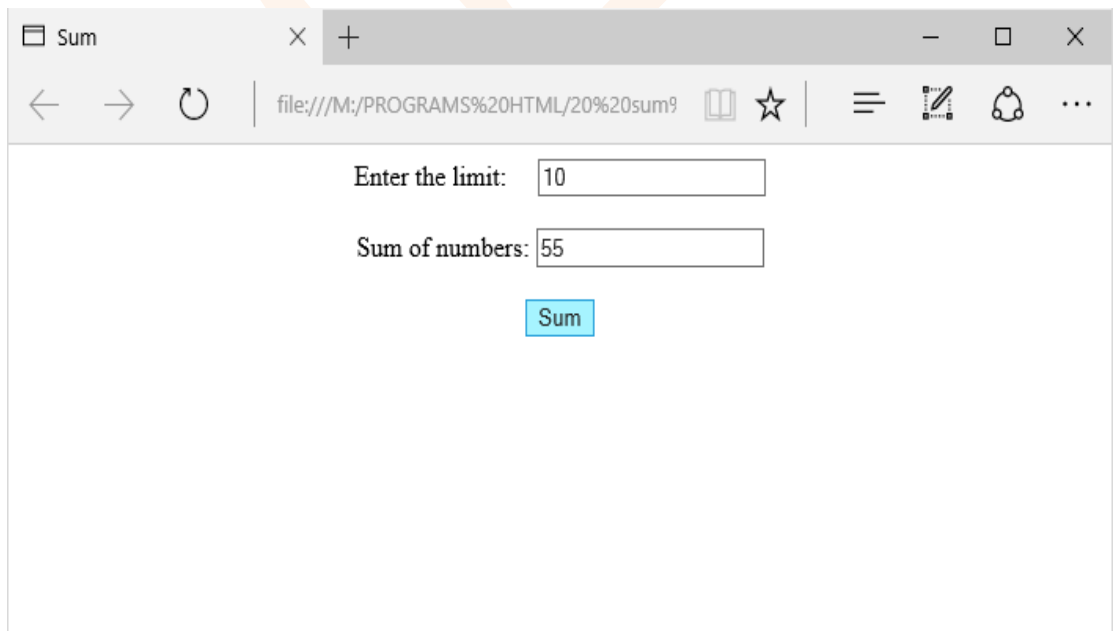
AIM:

To create a webpage to find the sum of numbers up to a given limit using HTML and JavaScript

SOURCE CODE:

```
<HTML>
<HEAD><TITLE>Sum</TITLE>
<SCRIPT Language="JavaScript">
function sum()
{
    var sum=0,i,limit;
    limit=Number(document.frmsum.txtlimit.value);
    for(i=1;i<=limit;i++)
    {
        sum=sum+i;
    }
    document.frmsum.txtsum.value=sum;
}
</SCRIPT>
</HEAD>
<BODY>
<FORM Name="frmsum">
<CENTER>
Enter the limit:   <INPUT Type="text" Name="txtlimit"> <BR><BR>
Sum of numbers: <INPUT Type="text" name="txtsum"> <BR><BR>
<INPUT Type="button" value="Sum" onClick="sum()">
</CENTER>
</FORM>
</BODY>
</HTML>
```

OUTPUT:



Section III

SQL



HSSLiVE.IN

AIM:

Create a table *Student* with the following fields and insert at least 5 records into the table except for the column Total.

roll_number	integer Primary key
name	
batch	varchar (25)
mark1	varchar (15)
mark2	Integer
mark3	Integer
total	Integer

- a. Update the column total with the sum of mark1, mark2 and mark3.
- b. List the details of students in Commerce batch.
- c. Display the name and total marks of students who are failed (total< 90).
- d. Display the name and batch of those students who scored 90 or more in mark1 and mark2.
- e. Delete the student who scored below 30 in mark3.

SOURCE CODE:



create table student(roll_number integer primary key, name varchar(25), batch varchar(25),mark1 integer, mark2 integer, mark3 integer, total integer);

insert into student values (1,'abijith', 'science',30, 20, 25,null);
insert into student values (2,'benjamin ', 'science',70, 60, 55,null);
insert into student values (3,'ashiq', 'commerce', 92, 95, 91,null);
insert into student values (4,'vishnu', 'commerce',40, 80, 50,null);
insert into student values (5,'arathi', 'science', 90, 94, 35,null);

- a. update student set total=mark1+mark2+mark3;
- b. select * from student where batch='commerce';
- c. select name,total from student where total<90;
- d. select name,batch from student where mark1>90 and mark2>90;
- e. delete from student where mark3<30;

AIM:

Create a table *Employee* with the following fields and insert at least 5 records into the table except the column Gross_pay and DA.

Emp_code	integer Primary key
Emp_name	varchar (20)
Designation	varchar (25)
Department	varchar (25)
Basic	varchar (25)
DA	Decimal (10,2)
Gross_pay	Decimal (10,2)

- a. Update DA with 75% of Basic.
- b. Display the details of employees in Purchase, Sales and HR departments.
- c. Update the Gross_pay with the sum of Basic and DA.
- d. Display the details of employee with gross pay below 10000.
- e. Delete all the clerks from the table.

SOURCE CODE:



create table employee(Emp_code Int Primary key,Emp_name varchar(20),Designation varchar(25) ,
Department varchar(25),Basic Dec(10,2),DA Dec(10,2),Gross_pay Dec(10,2));

insert into employee values(1001,'ARJUN','CLERK','SALES',5000.00,NULL,NULL);
insert into employee values(1002,'BIJU','Clerk','ACCOUNTS',16000.00,NULL,NULL);
insert into employee values(1003,'RANEESH','Peon','PURCHASE',16000.00,NULL,NULL);
insert into employee values(1004,'BINU','Accountant','ACCOUNTS',16000.00,NULL,NULL);
insert into employee values(1005,'ANUSREE','Manager',' HR ',16000.00,NULL,NULL);

- a. update employee set DA=Basic*75/100;
- b. select * from employee where Department in('Purchase', 'Sales','HR');
- c. update employee set Gross_pay=Basic+DA;
- d. select * from employee where Gross_pay<10000;
- e. delete from employee where Designation='Clerk';

AIM:

Create a table *Stock*, which stores daily sales of items in a shop, with the following fields and insert at least 10 records into the table.

Item_code	integer Primary key
Item_name	
Manufacturer_Code	varchar (20)
Qty	varchar (5)
Unit_Price	integer
Exp_Date	Decimal (10,2) Date

- a. Display the details of items which expire after 31/3/2016 in the order of expiry date.
- b. Find the number of items manufactured by the company "SATA".
- c. Remove the items which expire between 31/12/2015 and 01/06/ 2016.
- d. Add a new column named Reorder in the table to store the reorder level of items.
- e. Update the column Reorder with value obtained by deducting 10% of the current stock.

SOURCE CODE:

create table stock(Item_code Integer Primary key,Item_name varchar(20),Manufacturer_Code varchar(5), Qty Int,Unit_Price Decimal(10,2),Exp_Date Date);

insert into stock values(110,'Washing Machine','LG',124,9300,'2018/01/01');
insert into stock values(120,'Mobile Phone','LG',14,12300,'2016/01/01');
insert into stock values(130,'Projector','SATA',84,22300,'2018/06/01');
insert into stock values(240,'TV','Samsung',34,12300,'2016/01/06');
insert into stock values(125,'DVD','Onida',34,2900,'2016/06/01');

- a. select * from stock where Exp_Date<'2016/3/31' order by Exp_Date;
- b. select count(Item_name) from stock where Manufacturer_Code='SATA';
- c. delete from stock where Exp_Date between '2015/12/31' and '2016/06/01';
- d. alter table stock add Reorder int;
- e. update stock set reorder=Qty-Qty*10/100;



Exp. No. 24

Date

AIM:

Create a table **Book** with the following fields and insert at least 5 records into the table.

book_ID	integer Primary key
book_Name	varchar (20)
author_name	varchar (25)
pub_Name	varchar (25)
price	Decimal (10,2)

- Create a view containing the details of books published by SCERT.
- Display the average price of books published by each publisher.
- Display the details of book with the highest price.
- Display the publisher and number of books of each publisher in the descending order of the count.
- Display the title, current price and the price after a discount of 10% in the alphabetical order of book title.

SOURCE CODE:

```
create table book(bookid int primary key,bookname varchar(20), author_name varchar(25),pub_name varchar(25),
price dec(10,2));
```



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```
insert into book values (145,'Aadu jeevitham','benyamin','manorama',315);
insert into book values (165,'Plus 2 BS','DIRECTOR','SCERT',195);
insert into book values (135,'AgniChirakukal','Abdul Kalam','DC Books',157);
insert into book values (175,'Accountancy XII','DIRECTOR','SCERT',295);
insert into book values (155,'English XII','DIRECTOR','SCERT',105);
insert into book values (185,'AATHMAKATHA','Aravindan','DC Books',202);
```

- create view sbooks as select * from book where pub_name='SCERT';
- select avg(price) from book group by pub_name;
- select * from book where price = (select max(price) from book);
- select pub_name,count(*) from book group by pub_name order by count(*) desc;
- select bookname,price,(price-price*10/100) from book order by bookname;

Exp. No. 25

Date

AIM:

Create a table *Bank* with the following fields and insert at least 5 records into the table.

Acc_No	integer Primary key
Acc_Name	varchar (20)
Branch_Name	varchar (25)
Acc_Type	varchar (10)
Amount	Decimal (10,2)

- Display the branch-wise details of account holders in the ascending order of the amount.
- Insert a new column named Minimum_Amount into the table with default value 1000.
- Update the Minimum_Amount column with the value 500 for the customers in branches other than Alappuzha and Malappuram.
- Find the number of customers who do not have the minimum amount 1000.
- Remove the details of SB accounts from Thiruvananthapuram branch who have zero (0) balance in their account.

SOURCE CODE:

```
create table Bank(Acc_No int primary key,Acc_Name varchar(20),Branch_Name varchar(25),Acc_Type
varchar(10),Amount dec(10,2));
```



```
insert into Bank values(1234,'Joy','Thiruvananthapuram','SB',0);
insert into Bank values(134,'John','Malappuram','CB',29930);
insert into Bank values(1214,'Abi','Alappuzha','SB',99430);
insert into Bank values(224,'Jobi','Malappuram','SB',23430);
insert into Bank values(1334,'Abilash','Thiruvananthapuram','CB',45470);
```

- select * from bank order by branch_name,amount asc;
- alter table bank add Minimum_Amount int default 1000;
- update bank set Minimum_amount=500 where Branch_Name not in ('Alappuzha','Malappuram');
- select count(Acc_Name) from bank where Amount<1000;
- Delete from bank where Acc_Type='SB' and Branch_Name='Thiruvananthapuram' and Amount=0;

THANK YOU

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