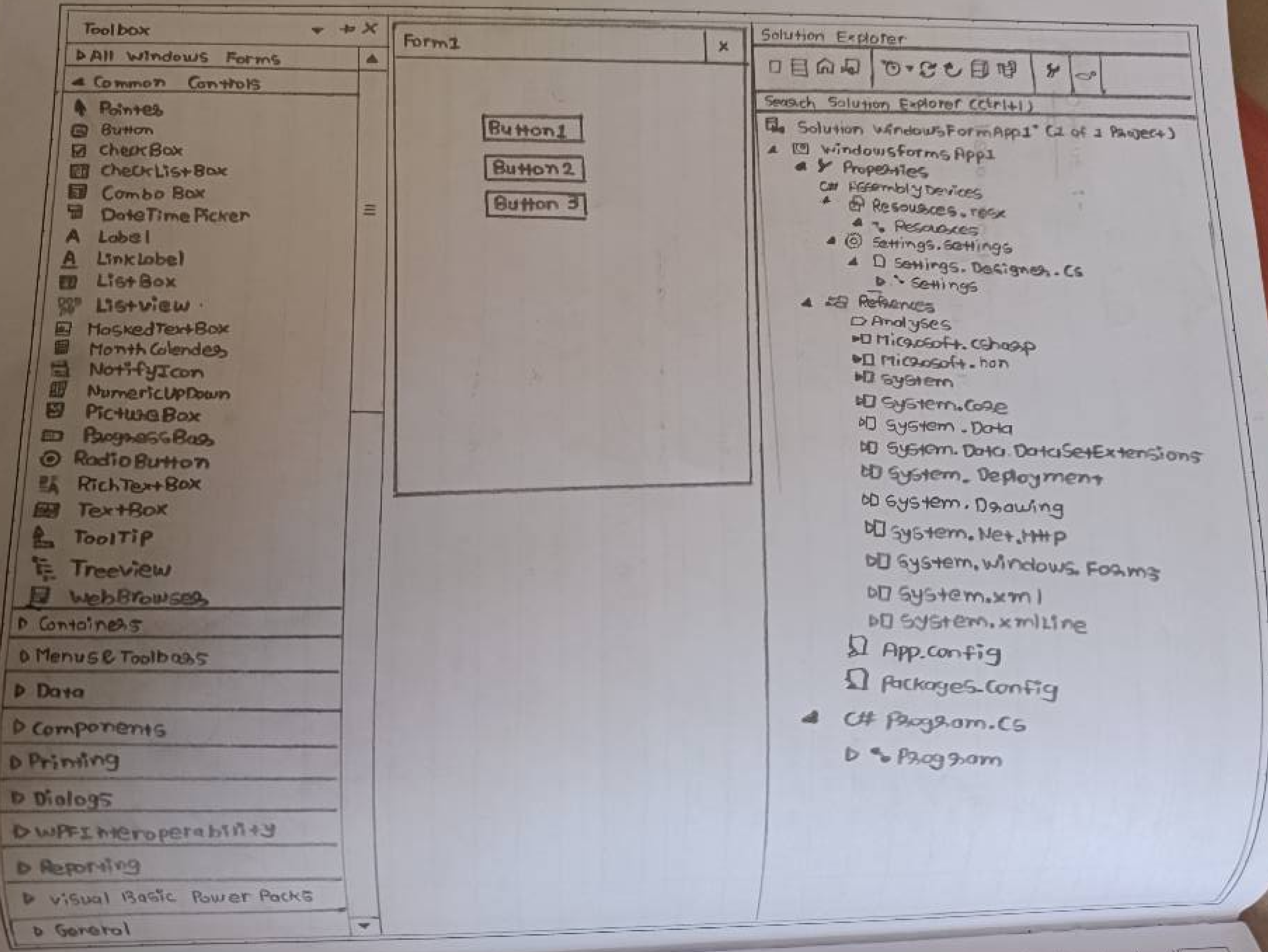

Toolbox
▷ All Windows Forms
◢ Common Controls
Pointes
Button
CheckBox
CheckListBox
Combo Box
DateTime Picker
Label
LinkLabel
ListBox
Listview
MaskedTextBox
Month Calendes
NotifyIcon
NumericUpDown
PictureBox
ProgressBas
RadioButton
RichTextBox
TextBox
ToolTip
Treeview
WebBrowses
▷ Containes
▷ Menus & Toolbass
▷ Data
▷ Components
▷ Printing
▷ Dialogs
▷ WPF Ineroperability
▷ Reporting
▷ Visual Basic Power Packs
▷ Generol
Form1
×
Button1
Button2
Button 3
Solution Explorer
Search Solution Explorer (Ctrl+;)
Solution WindowsFormApp1' (1 of 1 Project)
WindowsForms App1
Propesties
C# Assembly Devices
Resousces.resx
Resouxces
Settings.Settings
Settings.Designes.cs
Settings
Refences
Analyses
Microsoft.Csharp
Microsoft.hon
System
System.Core
System.Data
System.Data.DataSetExtensions
System.Deployment
System.Drawing
System.Net.Http
System.Windows.Forms
System.xml
System.xmlLine
App.config
Packages.Config
C# Program.cs
Program

M T W T F S S

EXPT. NO. 1.	NAME Hello world	Page No.: 1 Date: 29/1/25	YOUVA

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

 static void Main (string[] args)
 {
        System.Console.WriteLine ("Hello world");
        System.Console. ReadLine ();
 }
```

Output :-

```
Hello world
```

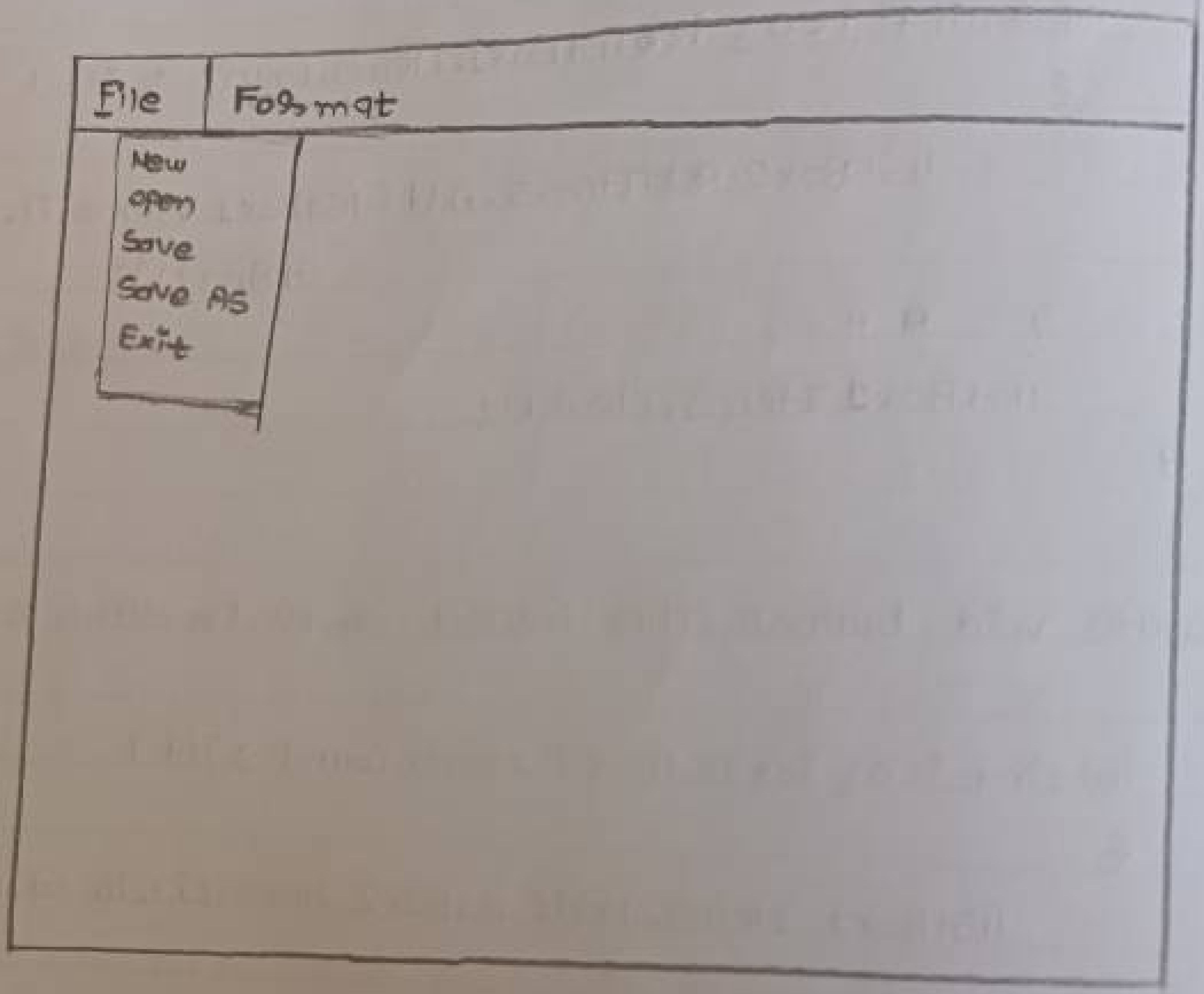
Teacher's Signature: ____________

Output :-

```
Enter Marks  1 : 80
Enter Marks  2 : 80
 Total  : 160
 Result  : Pass
Percentage : 80%
Grade : A
```

EXPT NO. 2. NAME Result

```
using System;

public class Program
{
    public static void main (String[] args)
    {
            int m1, m2, total;
            double per;
            String grade, result;
            Console.writeLine ("Enter Marks 1 :");
            m1 = Convert.ToInt32 (Console.ReadLine());
            Console.writeLine ("Enter Marks 2 :");
            m2 = Convert.ToInt32 (Console.ReadLine());
            total = m1 + m2;
            if (m1 >= 40 && m2 >= 40)
            {
                    result = "PASS";
                    per = Convert.ToDouble (total) /2;
                    if (per >= 70)
                    {
                            grade = "A";
                    }
                    else if (Per = 60)
                    {
                            grade = "B";
                    }
            else if (per >= 50)
            {
                grade = "C";
            }
            else
            {
                grade="D";
            }
    else
    {
            result = "FAIL";
            per = 0;
            grade = "F";
    }
     Console.writeLine("Total : " +total);
     Console.writeLine ("Result :" +result);
     Console.writeLine ("Percentage : " +per);
     Console.writeLine ("Grade : "+grade);
     Console.ReadLine();
   }
}
```


File
Format
New
open
Save
Save AS
Exit

EXPT. NO. 4. NAME Notepad create

Page No.: 6 Date: 20/12/25 YOUVA

```
using system ;
using System.windows.forms;

namespace Notepad1
{
    public partial class Form1 : Form
    {
        String filename = "";
        string prevData = "";

        public form1()
        {
            Initializecomponent();
        }

        private void SaveData()
        {
            if (filename == String.Empty)
            {
                prevData = richTextBox1.Text;
                Savefile Dialog SF = new SavefileDialog();
                SF.Title = "Save File - Notepad";
                SF.Filter = "Text File |".txt";
                SF.ShowfileDialog();
                if (SF.filename != "")
                {
```

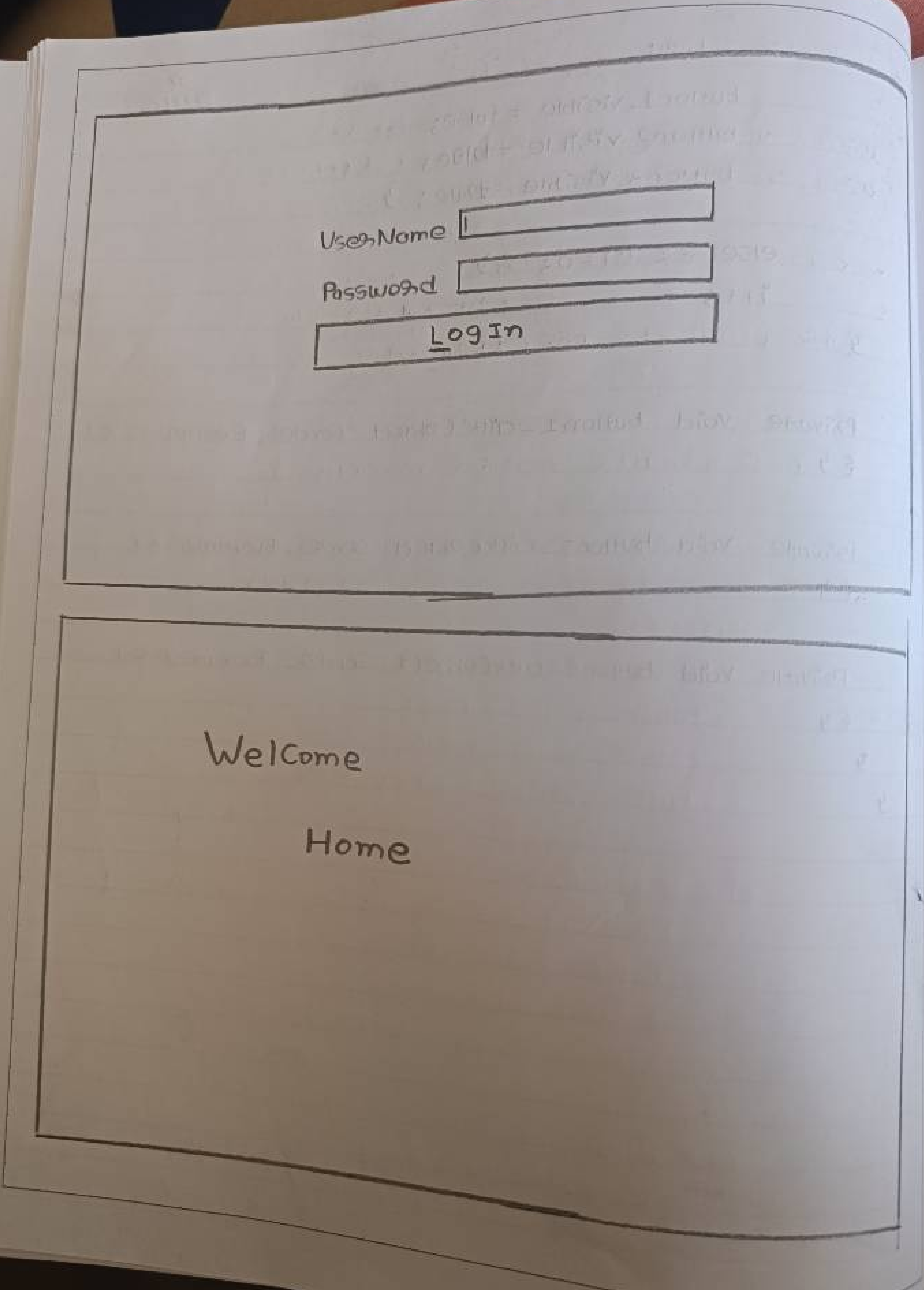
Teacher's Signature:

```
            richTextBox1. Savefile(SF.File name);
            filename = SF.filename;
        }
        else
        {
            richTextBox1. Savefile(filename);
        }
    }

    Private void ClearData()
    {
        richTextBox1. Text = String. Empty;
        filename = String. Empty;
        prevData = String. Empty;

    private void Save ~~open~~_click(Sender, Eventargs e)
    {
        SaveData();
    }

    private void open_click(object Sender, Eventargs e)
    {
        if (filename == String. Empty)
        {
            prevData = richTextBox1. Text;
            openfileDialog OF = new openfileDialog
            OF.Title = "open File - Notepad";
            OF. Filter = 'Text' File | ".txt";
```

```
                OF.ShowFileDialog();
                if(OF.Filename != "")
                {
                    richTextBox1.LoadFile(OF.Filename);
                    filename = SF.Filename;
                }
            else
            {
                richTextBox1.Savefile(filename);
            }
        }

Private void new_click(object Sender, Eventargs e)
{
    DialoogResult DR= MessageBox.Show("Do You
    want to save?", "Notepad", MessageBox.Buttons
    Yesno, MessageBox.BIcon.Qustions);
    if (DR == DialogResult.Yes)
    {
            SaveData();
            ClearData();
    }
    else
    {
            clearData();
    }
```

```
            if( CurrData != PrevData)
            {
                    richTextBox1.Savefile(filename);
                    clearData();
                    CurrData = String.Empty;
             }
             else
             {
                    clearData();
                    CurrData = String.Empty;
              }
        }
    }

    private void SaveAS_click(object sender, EventArgs e)
    {
        filename = String.Empty;
        SaveData();
    }

    private void exit_click (object sender, EventArgs e)
    {
        Application.Exit();
    }
```

```
private   void   fontcolor_clik(object sender, args e)
{
        ColorDialog   CD = new   ColorDialog();
         CD.ShowDialog;
         richTextBox1.Forecolor  =  CD.Color;
 }

private   void   fonttool_click(object sender,Event args e)
{
        FontDialog   FD = new   FontDialog();
         FD.ShowDialog;
         richTextBox1.~~Forecolor~~ Font = FD.Font;

  }
 }
}
```


UserName
Password
LogIn
Welcome
Home

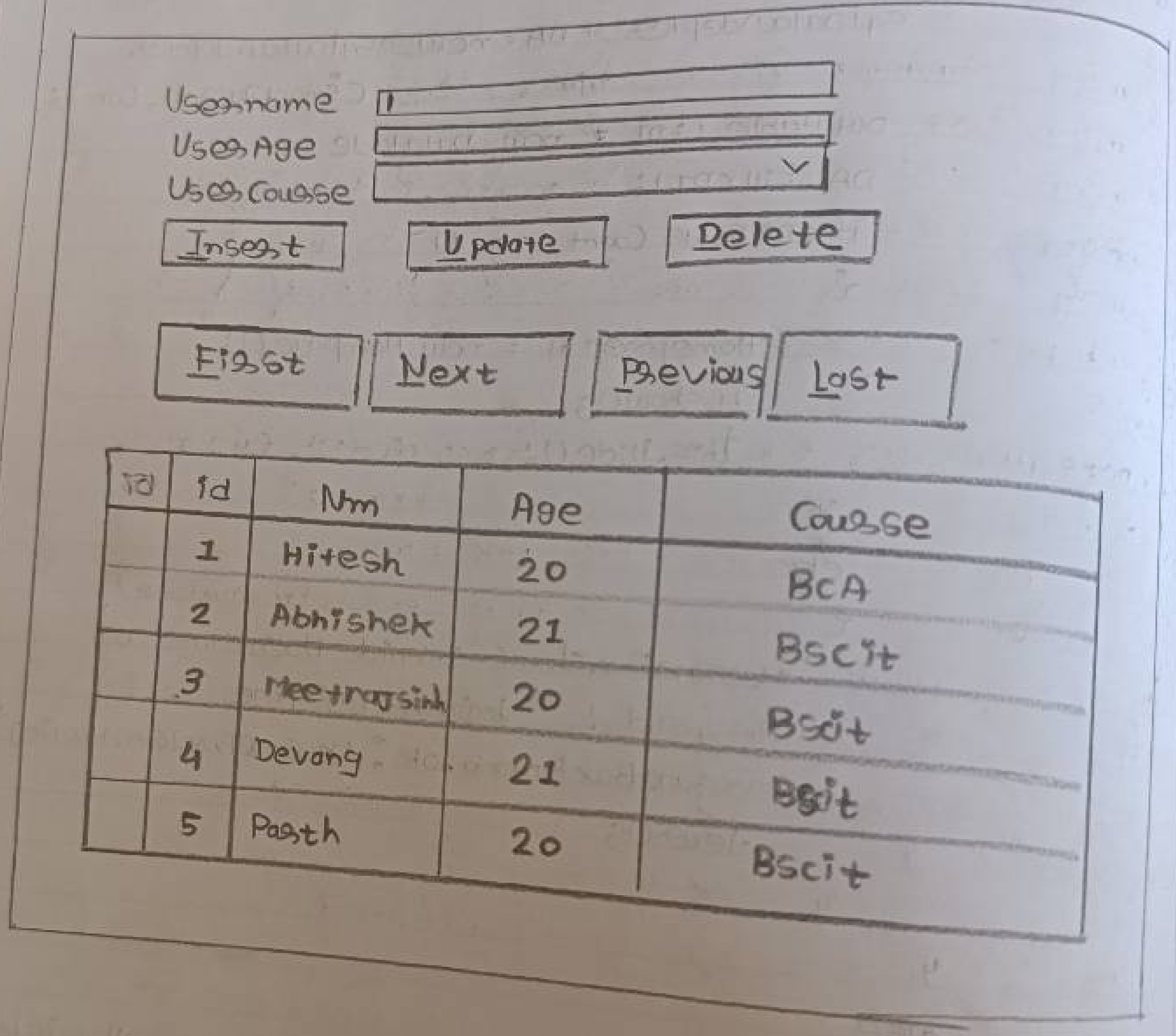
EXPT. NO. 6. NAME

Login Page & Home Page

```
using   System;
using   System.Drawing;
using   System.Windows.Forms;
using   System.Data;
using   System.Data.Sql;
using   System.Data.Sqlclient;

namespace  Login&HomePage
{
      public partial class  Login page : Form
      {
            public Form1()
            {
                  InitializeComponent();
            }

            private void BtnLogin_click(object Sender, EventArgs e)
            {
                  if(txtunm.Text != "" && txtpwd.Text != "")
                  {
                        String SelectQuery = "select * from login
                          where user name = '" + txtunm.Text + "'
                            and password = '" + txtpwd.Text + "')";
                        SqlConnection Con = new Sql connection("
                        Data Source=(LocalDB)\\ MSSQL localDB ;Attach
                        DbFile name = |Data Directory| \\ DataLogin.Mdf;
                        Integrated Security = true");
```

Teacher's Signature: ____________

```
SqlDataAdepter DA = new SqlDataAdepter
                              (SelectQuery , Con);
Datatable DT = new Datatable
DA.Fill(DT);
if (DT.Rows.Count == 1)
{
      Homepage H = new Hompage();
      H.Show();
      this.Hide();
}
else
{
    MessageBox.Show("Invaiid UserName or
    Password ! " " Loginpage ",
    MessageBox Buttons.ok , MessageBoxIcon.warning");
     clear();
}
}
else
{
MessageBox Show ("Please Enter value in All feields!"
"Loginpage", MessageBoxButtons.ok, MessageBoxIcon.warning");
clear();
}
}

Private void clear() {
   txt unm. Text = txt pwd Text = String. Empty;
   txt unm. focus(); }
}
}
```



Id	Id	Nm	Age	Course
	1	Hitesh	20	BCA
	2	Abhishek	21	BScit
	3	Meetrajsinh	20	Bscit
	4	Devang	21	Bscit
	5	Parth	20	Bscit

EXPT NO. 7. NAME

Crud & Navigation

Date 25/3/25

Connection File :- Connection.cs

```
using System;
using System.Data;
using System Data.Sql;
using System.Data Sqlclient;

namespace ~~Connection~~ Crud&Navigation
{
        class Connection
        {
            public static Sqlconnection Con = new Sqlconnection ("
        Data Source = (localDB)\\MSSQLLocalDB; AttchDbFilename =
        |DataDirectory|\\DataBase.mdf; Integrated Security = true");

        public static DataTable Crud(String qtype, String tblnm, String
          prm1, String prm2)
        {
            DataTable DT = new DataTable();
            Sql DataAdapter DA;
            if (qtype == "Insert")
            {
                String InsertQuery = "Insert into " + tblnm + "
                values ('" + prm1 + "')";
                DA = new SqlDataAdapter (InsertQuery, Con);
                DA.Fill(DT);
                return DT;
            }
```

Teacher's Signature: ______

```
else if (qtyp == "select")
{
    String selectQuery ="Select * from "+ tblnm ;
    DA = new SqlDataAdapter (selectQuery , Con);
    DA.Fill(DT);
    return DT;
}
else if (qtyp ==" Update")
{
    String UpdateQuery =" Update "+ tblnm + " Set" +
     prm1 +" where id= '"prm2 + "'" ;
    DA = new SqlDataAdapter (UpdateQuery , Con);
    DA.Fill(DT);
    returnDT;
}
elseif(qtyp == "Delete")
{
    String DeleteQuery =" Delete"+ tblnm +" where id=
    '" +prm1 + "'" ;
    DA = new SqlDataAdapter(upDeleteQuery, Con);
    DA.Fill(DT);
    return DT;
}
return DT;
}
```

Crud & Navigatin File :- Crud.cs

```
using System;
using ~~windows~~. System.windows.forms;
using System.Drawing;
using System.Data;
using System.Data.Sql;
using System.Data.sqlclient;
{
    namespace Crud&Navigation
    {
        public partical Crud : Form
        {   int Rp = 0, Tr = 0;
            public ~~form~~ Crud(){ Initialize component(); }

        private void LoadData()
        {
            UserData. DataSource = Connection. Crud
            ("Select", "Crud", "");
            Tr = connection. Crud ("Select", "Crud", "").Rows
            .Count - 1;
        }

        Datatable DT = ("Select", "Crud", "");
```

```
private void clear()
{
    tstUnm.Text = txtage.Text = txtCou.Text = "";
    txtunm focus();
}

private void BtnEnable(){
    BtnU.Enabled = true;
    BtnD.Enabled = true;
    BtnI.Enabled = false; }

Private void BtnDisable(){
    BtnU.Enabled = false;
    BtnD. Enabled = false;
    BtnI. Enabled = true; }

private void Navigate(){
    if (Tr >=0)
    {
        txtUnm.Text = DT.Rows [Rp][1].ToString();
        txtage.Text = DT.Rows [Rp][2] ToString();
        txt cou.Text = DT.Rows[RP][3].ToString();

    }
}
```

Teacher's Signature:

```
Private void   Crud_Load(object Sender, EventArgs e)
{
        load Data();
        if(Connection.crud("select", "Course", "*").Rows.Count
           >0) {
                    CourseBox.DataSource =
              Connection.Crud("Select", "Course", "*").Rows[0][1].ToString();
          }
          CourseBox.DisplayMember =" Cou";
          CourseBox.valueMember =" Cou";
        clear();
}


Private void  Btn1_click(object sender, EventArgs e)
{
    if(txtUnm.Text != "" && txtage.Text != "" && txtCou.Text != "")
    {
        String InsertQuery = txtUnm.Text+"','"+txtage.Text+"
         ','"+txtCou.Text;
        Connection.Crud("Insert", "Crud", InsertQuery, "");
        Clear();
        LoadData();
        BtnDisable();
    }
    else
    {
        MessageBox.Show("Fill All feilds !", "Crud",
        MessageBoxButtons.ok, MessageBoxIcon.warning);
        Clear();
    }
}
```

```
private void ~~Update~~ BtnU_click(object Sender, EventArgs e) {
    if(txtUnm.Text != "" && txtage.Text != "" && txtCou.Text != "") {
        String P1 = "Nm='" + txtUnm.Text + "', Age='" + txtage.
         Text + "', Course='" + txtCou.Text + "'";
        String P2 = DT.Rows[RP][0].ToString();
         Connection.Crud("Update", "Crud", P1, P2);
         LoadData();
         clear();
         BtnDisable(); }
    else {
     MessageBox.Show("Fill All feilds!", "Crud",
       MessageBoxButtons.ok, MessageBoxIcon.warning); }}

Private void BtnD_click(object Sender, EventArgs e) {
   if(txtUnm.Text != "" && txtage.Text != "" && txtCou.Text != ""): {
       String P1 = DT.Rows[RP][0].ToString();
       Connection.Crud("Detete", "Crud", "P1", "");
        Loaddata();
         Clear();
         BtnDisable(); }
  else {
    MessageBox.Show("Fill All feilds!", "Crud",
     MessageBoxButtons.ok, MessageBoxIcon.Warning); }}
```

```
Private void BtnF_click (object Sender ,EventArgs e) {
    if (Tr >=0) {
            Rp = 0;
             Navigate();
              BtnEnable(); } }

Private void BtnN-click (object Sender , EventArgs e) {
  if (Rp < tr) {
          Rp++;
          Navigate ();
           BtnEnable(); }}

Private void BtnP_click(object Sender, EventArgs e) {
    if (Rp >0) {
            Rp--;
            Navigate();
            BtnEnable(); } }

Private void BtnL_click(object Sender, Event ArgS e) {
       if (Tr >=0) {
                Rp = tr;
                Navigate ();
                BtnEnable (); }}

       }
}
```

```
1
2 1
3 2 1
4 3 2 1
5 4 3 2 1
```

EXPT. NO. 8. NAME Piramid

```
using System;
namespace Piramid
{
    class Program
    {
        static void main(string[] args)
        {
            for (int i= 1 ; i<= 5 ; i++ )
            {
                for (int j=i  j>=1 ;  j--)
                {
                        Console write (j);
                }
                Console writeLine ();
            }
        }
    }
}
```

Demo
Data

EXPT NO. 9. NAME Static & Non Static Method

```
using system ;

namespace Static&Non-Static
{
        class Program
        {
                public static void Demo()
                {
                        Console.writeLine("Demo");
                }
                Public void Data()
                {
                        Console.write("Data");
                }
                Static void main (String[] args)
                {
                        Demo();   // Static Method
                        Program P = new Program();
                        P.Data(); // Non-Static Method.
                        Console.ReadLine();
                }
        }
}
```

```
Sum of x and y is : 11
Sum of x and y is : 11.9
```

EXPT. NO 10 NAME

Constructor overloading

M T W T F S S

Page No. 24

Date 26/3/25

YOUVA

```
Using System;

namespace Constructoroverloading
{
        Class Co
        {
                Co(int a, int b) {
                        int x,y;
                        x=a;
                        y=b;
                        Console.writeLine("Sum of x and Y is :" +
                                                        (x+y)); }

                Co(double a, double b) {
                        double x,y;
                        x=a;
                        y=b;
                Console.write("Sum of x and y is :"+(x+y)); }

        Public static void main (string[] args)
        {
                Co p = new Co(5,6);
                Co Q = new Co(5.3, 66);
                Console ReadLine();
        }
    }
}
```

Teacher's Signature

Num1 = 8
Num2 = -7

EXPT. NO. 11 NAME operator overloading

Page No. 25
Date 26/3/25

```
using System;

namespace operatoroverloading
{
        class opov {
                int n1,n2;
        public opov(int num1, int num2) {
                n1 = num1;
                n2 = num2;  }

        public static opov operator - (opov o)
        {
              o.n1 = -o.num1 ;
              o.n2 = -o.num2 ;
              return o;
        }

        public void print () {
            Console.WriteLine("Num1=" + n1 + "Num2=" + n2); }
        }

        class Show {
          static void Main(String[] args)
            {
                opov ov = new opov(-8, 7);
                ov = -ov;
                ov.Print();
                Console.ReadLine();
        }
  } }
```

Teacher's Signature

40
40

EXPT. NO 12 NAME Ref and out

```
using System;

namespace : Refout
{
class Refout
{
        class SY
        {
                public int outpram(out int a, out int b)
                {
                        a=20;
                        b=20;
                        return a+b;
                }

                Public int refpram(ref int a, ref int b)
                {
                        return a+b;
                }
        }

        Static void main(String S[])
        {
                int i=20;
                int j=20;
                SY S = new SY();
```

```
          Console.write(S.outpram(out.i, out j));
          Console.write(S.refprom(ref i, ref j));
        } Console.Read();
      }
   }
}
```

Hello

EXPT NO 13. NAME Sealed class

M T W T F S S

Page No: 27

Date 2/4/25

YOUVA

```
using System;

namespace Sealed {
S         Sealed class class1 {
                public void print () {
                        Console writeLine ("Hello"); } }

          class program {
                static void main (String s[]) {
                        class1 c = new class1();
                        c.print();
                        Console.Read(); } }

}
```

abstract class

```
using system;

namespace : abstract
{
        abstract class class1 {
                public abstract void print(); }

        class class2 : class1 {
                public override void print(){
                        console.writeLine("Abstract"); } }

        class Program {
                static void main (string [] args) {
                        class2 c = new class2();
                        c.print();
                        console.Read(); } }
}
```

F

Interface inheritence

```
using System;
namespace : Interface Inheritence
{
    interface result {
              void grade(); }

    class II : result
    {

            public void grade()
            {
                Console.writeLine("F");
            }
    }

     internal calss Program
     {
            Static void main (string s[])
            {
                 II i = new II();
                 i. grade();
                 Console Read();
            }
     }
}
```

F

Creating and using Properties

```
using System;
namespace : cup
{
        class Result {
                public string grade;
                public string Grade
                {

                        get { return grade; }
                        Set { grade = value; }
                } }


        internal class Program
        {
                static void main (string s[])
                {
                        Result R = new Result();
                        R. Grade = "F";
                        Console.writeLine (Result. Grade);
                        Console. Read();

                }
        }
}
```

A

EXPT. NO. NAME

Createing and using Indexer

```
using System;
namespace : CUI
{
        class Result
        {
                public String[] grade = new String[5];
                public string this [int i]
                {
                        get { return grade[i]; }
                        set { grade [i] = value; }
                }
        }

        internal class Program
        {
                static unsafe void Main(string s[])
                {
                        Result R = new Result();
                        R[0] = "A";
                        Console.WriteLine(R[0]);
                }
        }
}
```

150

EXPT. NO. 16. NAME Event Delegets

Page No. 32
Date 3/4/25

```
using System;
namespace : EventDelegets
{    internal class Program{
     public delegate void addnum(int a, int b);
  // public delegate void Subnum(int a, int b);

     public void sum(int a, int b){
          Console.writeline(a+b); }

     Static void main(string S[])
     {
          Program p = new Program();
          addnum del1 = new addnum(obj. sum);
          del1(100, 50);
          Console.Read();
     }
}
```