

# Mid Term Exam

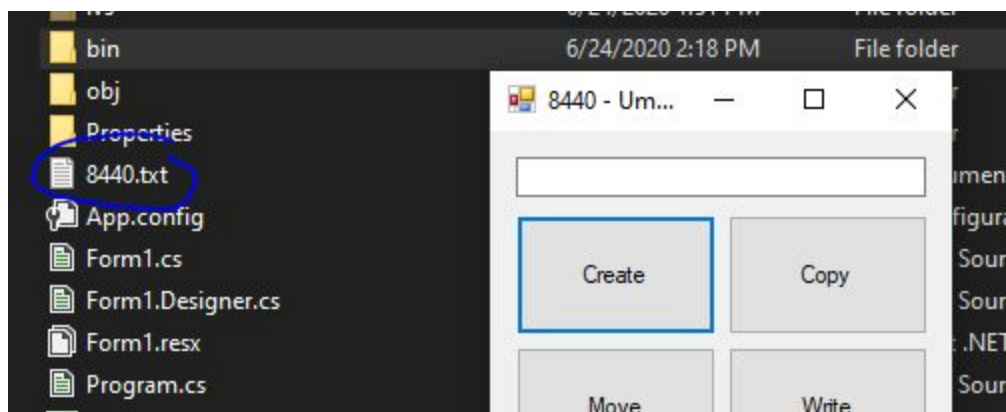
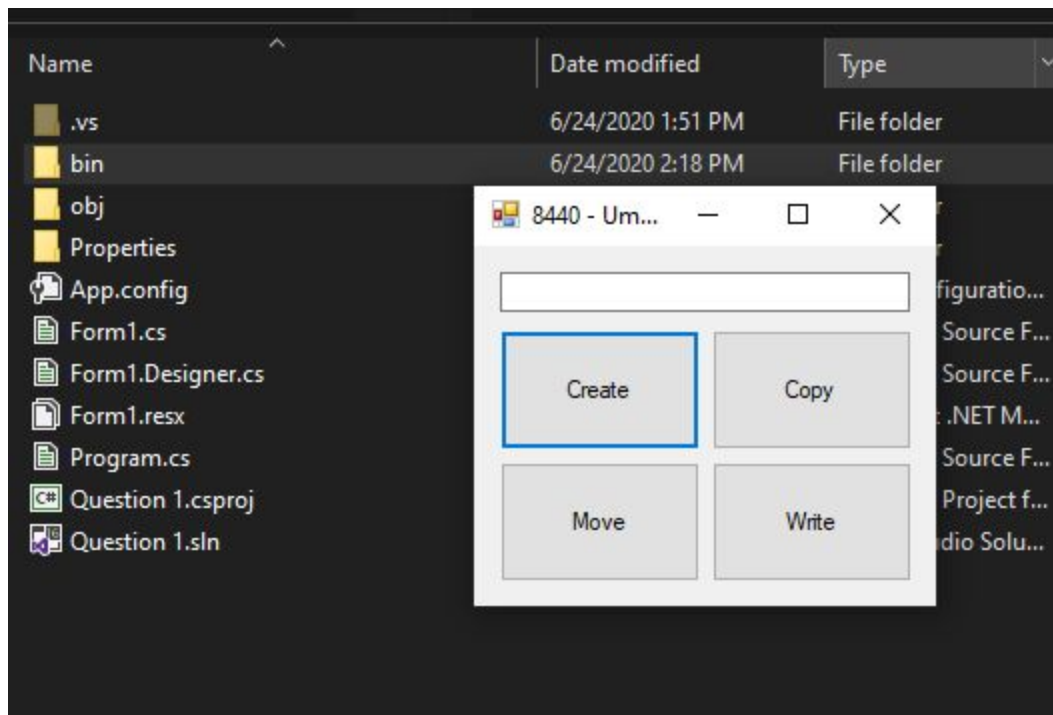
## Question 1

### Source Code

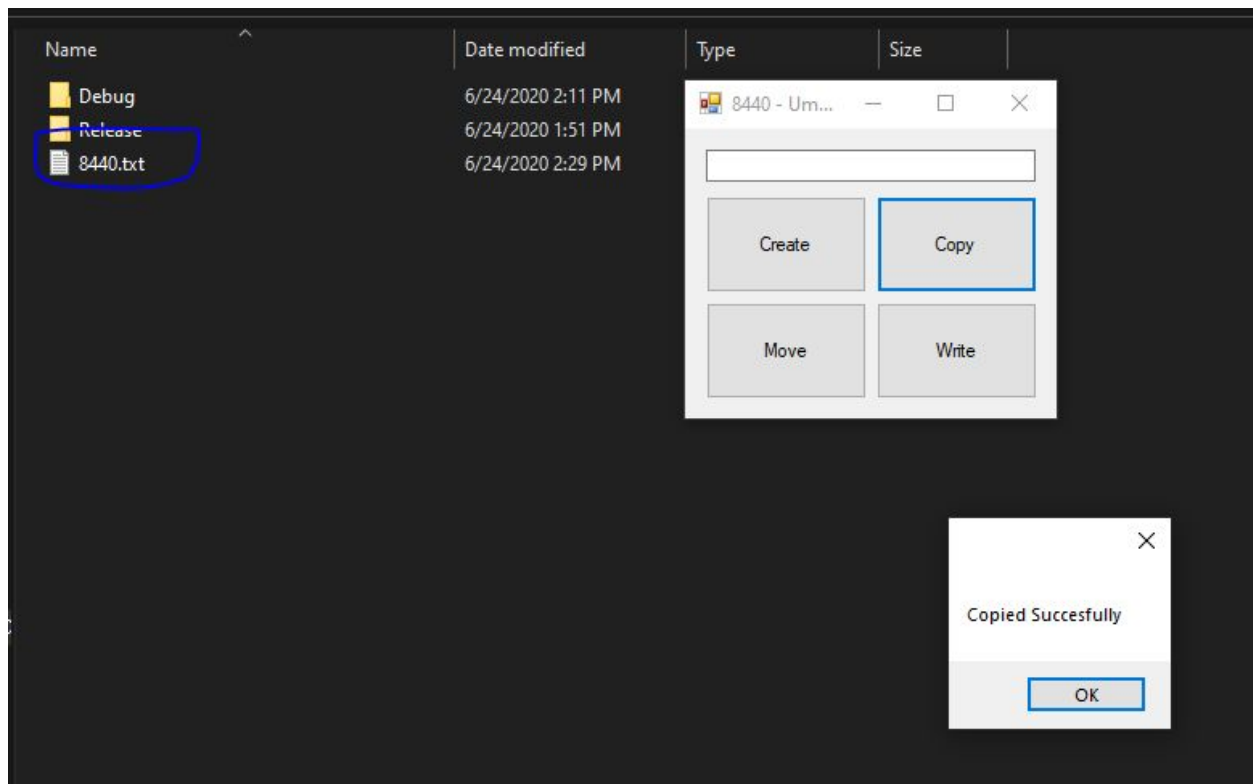
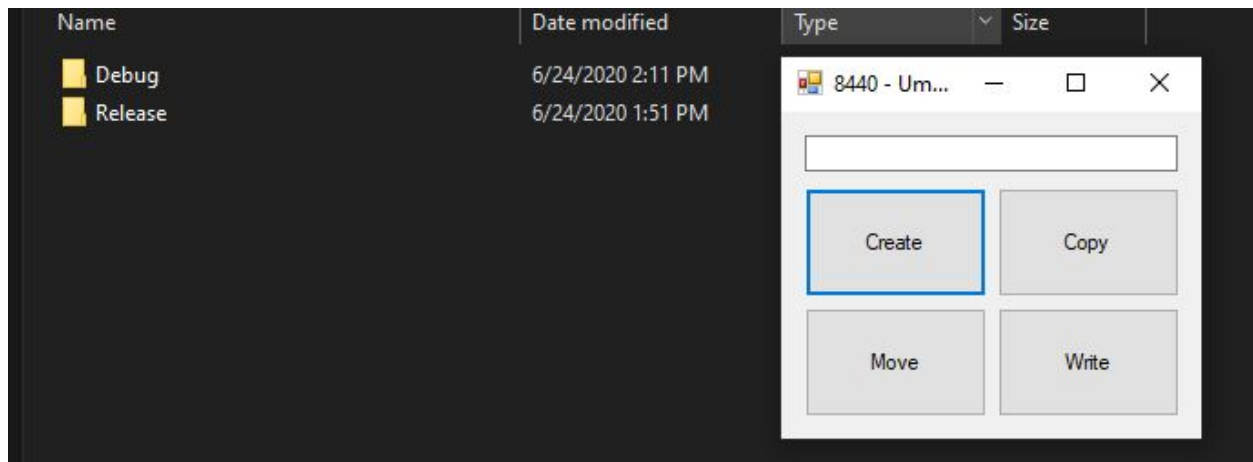
```
//8440 Umair Jibran
1 reference
private void button1_Click(object sender, EventArgs e){
    if (File.Exists(@"../../8440.txt")) MessageBox.Show("File Exists");
    else File.Create(@"../../8440.txt");
}
1 reference
private void button2_Click(object sender, EventArgs e){
    if (File.Exists(@"../../8440.txt")){
        File.Copy(@"../../8440.txt", @"../8440.txt");
        MessageBox.Show("Copied Succesfully");
    }
    else MessageBox.Show("No Such File Exists");
}
1 reference
private void button3_Click(object sender, EventArgs e){
    if (File.Exists(@"../../8440.txt")){
        File.Move(@"../../8440.txt", @"../8440.txt");
        MessageBox.Show("Moved Succesfully");
    }
    else MessageBox.Show("No Such File Exists");
}
1 reference
private void button4_Click(object sender, EventArgs e){
    if (File.Exists(@"../../8440.txt")){
        String message = textBox1.Text;
        TextWriter txt = new StreamWriter(@"../../8440.txt");
        txt.Write(message);
        txt.Close();
        MessageBox.Show(message + " Written Succesfully");
    }
    else MessageBox.Show("File Doesn't Exist Please Create it First");
}
```

## Output

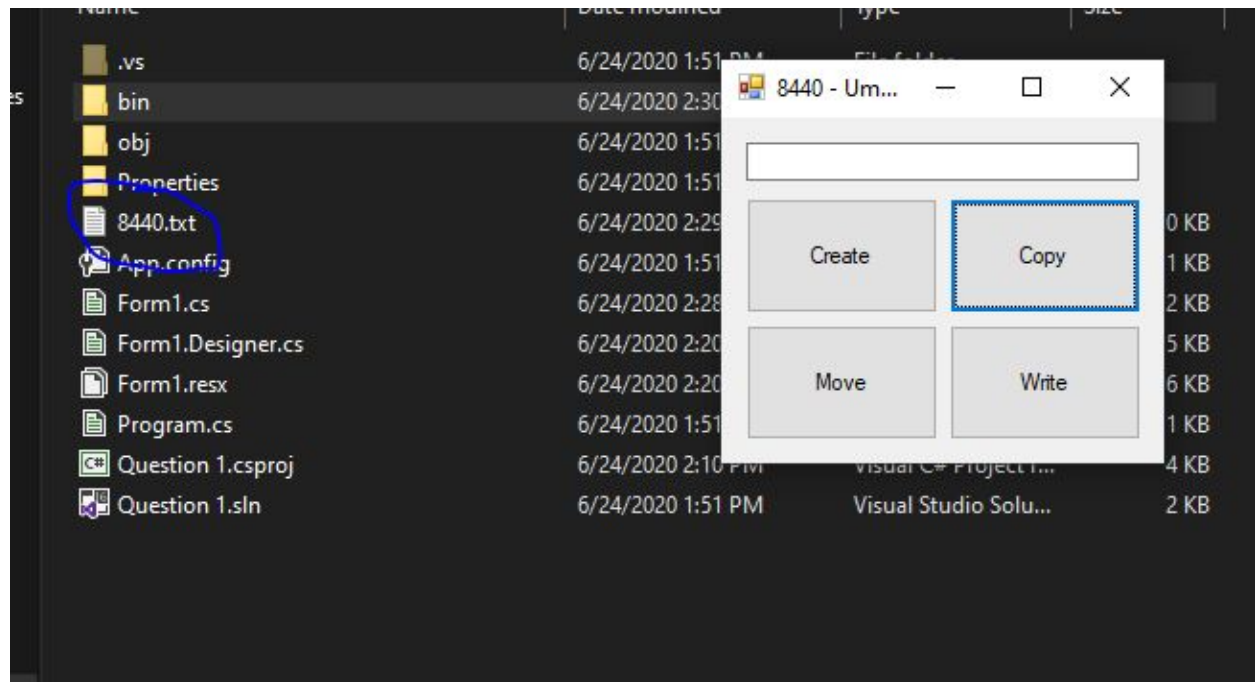
### Create

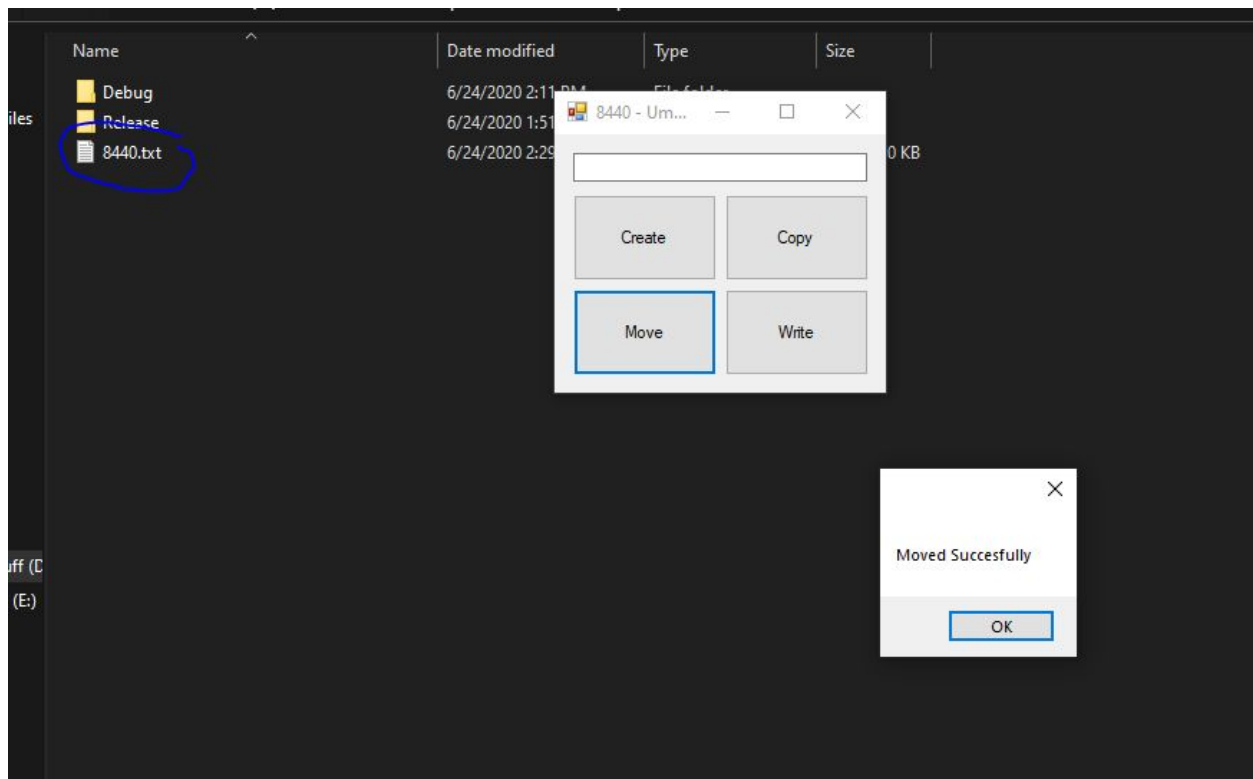
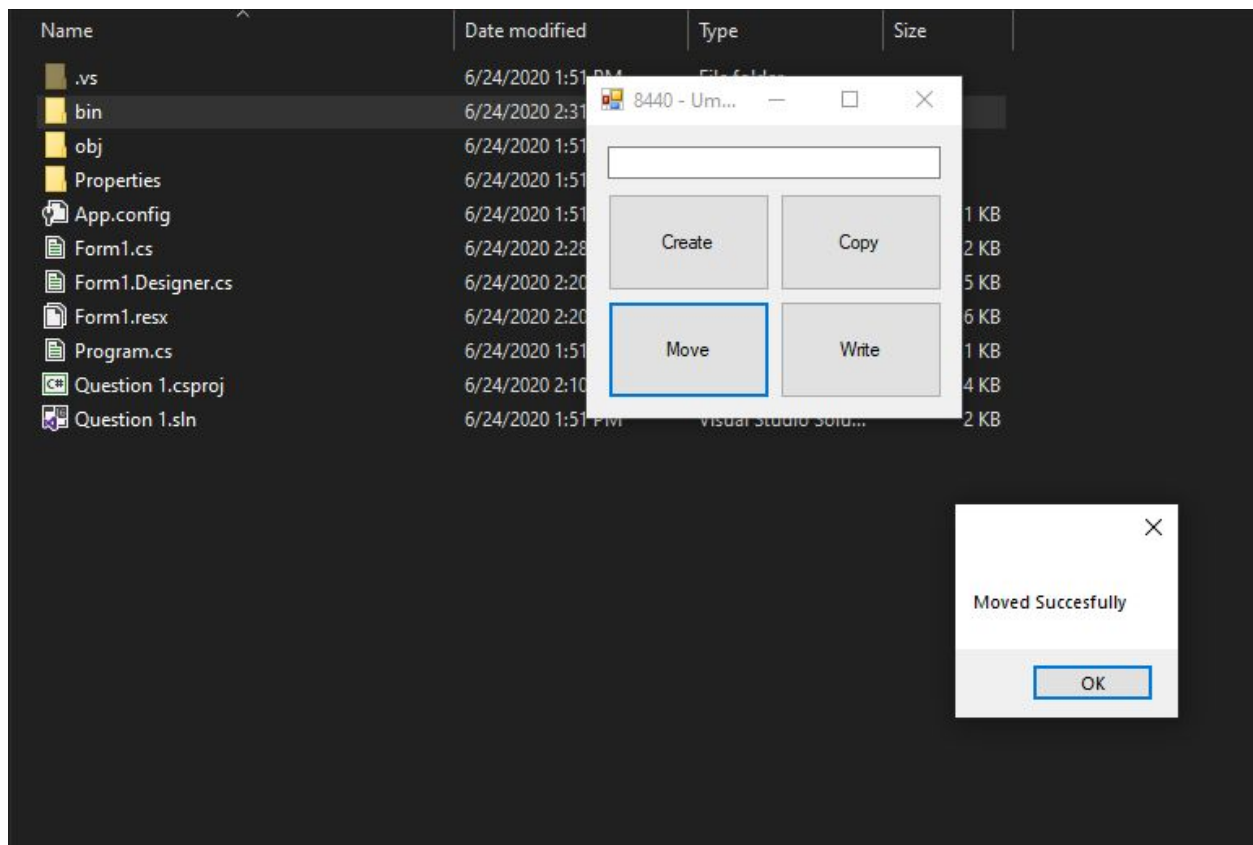


## Copy

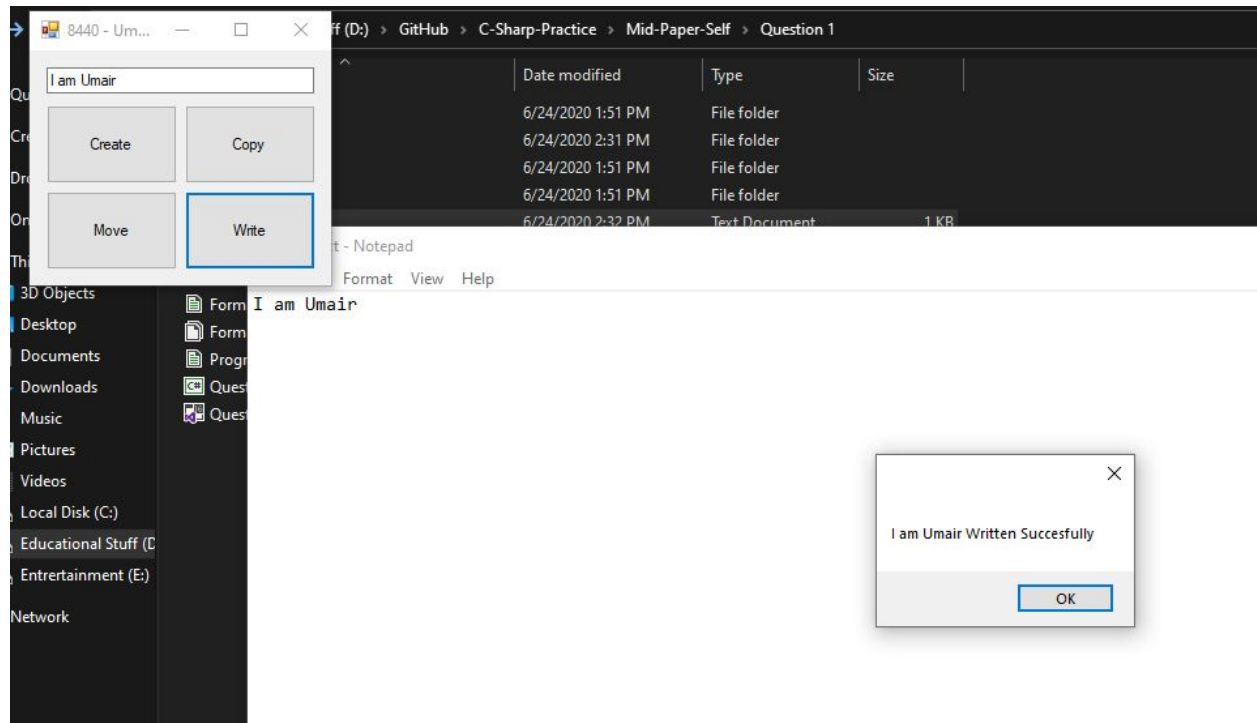


## Move





## Write



## Question 2

### Source Code

```
int quantity = 0;
1 reference
private void button1_Click(object sender, EventArgs e){
    listBox1.Items.Clear();
    foreach (string book in checkedListBox1.CheckedItems){
        listBox1.Items.Add(book);
    }
    quantity = checkedListBox1.CheckedItems.Count;
}
1 reference
private void button2_Click(object sender, EventArgs e){
    textBox1.Text = "" + quantity;
}

1 reference
private void button3_Click(object sender, EventArgs e){
    textBox2.Text = "Rs. " + quantity * 450;
}
1 reference
private void button5_Click(object sender, EventArgs e){
    Application.Exit();
}
1 reference
private void button4_Click(object sender, EventArgs e){
    quantity = 0;
    listBox1.Items.Clear();
    textBox1.Clear();
    textBox2.Clear();
    checkedListBox1.Items.Clear();
}
```

## Output

The screenshot shows a Java Swing window titled "8440 - Umair Jibran". The window has a light gray background and a title bar with standard Windows controls (minimize, maximize, close). The main content area features the title "Book Shop for Cusit Students by Umair Jibran" in blue text. Below the title, there is a section labeled "Select your Favourite Book" with a list of ten books, each preceded by an unchecked checkbox. To the right of the list are two empty rectangular boxes. At the bottom, there are four buttons: "Reset", "Exit", "Get Book", and "Get Book Quantity". Below the "Get Book" button is a label "Total Price" and a text input field.

8440 - Umair Jibran

## Book Shop for Cusit Students by Umair Jibran

Select your Favourite Book

- ☐ OOP
- ☐ Data Structures and Algorithms
- ☐ C++ How to Program
- ☐ All the modern Approach
- ☐ Visual Programming
- ☐ Routing and Switching
- ☐ Digital Fundamentals
- ☐ The Great Gatsby
- ☐ The Hobbit

Get Book

Get Book Quantity

Reset

Exit

Total Price



View Insert Format Tools Add-ons Help Last edit was seconds ago

8440 - Umair Jibran

## Book Shop for Cusit Students by Umair Jibran

Select your Favourite Book

|  |                   |   |
|--|-------------------|---|
| <input checked="" type="checkbox"/> OOP                | OOP<br>The Hobbit | 2 |
| <input type="checkbox"/> Data Structures and Algorithr |                   |   |
| <input type="checkbox"/> C++ How to Program            |                   |   |
| <input type="checkbox"/> AI the modern Aproach         |                   |   |
| <input type="checkbox"/> Visual Programming            |                   |   |
| <input type="checkbox"/> Routing and Switching         |                   |   |
| <input type="checkbox"/> Digital Fundamentals          |                   |   |
| <input type="checkbox"/> The Great Gatsby              |                   |   |
| <input checked="" type="checkbox"/> The Hobbit         |                   |   |
| <input type="checkbox"/>                               |                   |   |

Get Book Get Book Quantity

Reset Exit Total Price Rs. 900

8440 - Umair Jibran

## Book Shop for Cusit Students by Umair Jibran

Select your Favourite Book

|  |   |   |
|--|---|---|
| <input checked="" type="checkbox"/> OOP                | OOP<br>Visual Programming<br>The Hobbit | 3 |
| <input type="checkbox"/> Data Structures and Algorithr |   |   |
| <input type="checkbox"/> C++ How to Program            |   |   |
| <input type="checkbox"/> AI the modern Aproach         |   |   |
| <input checked="" type="checkbox"/> Visual Programming |   |   |
| <input type="checkbox"/> Routing and Switching         |   |   |
| <input type="checkbox"/> Digital Fundamentals          |   |   |
| <input type="checkbox"/> The Great Gatsby              |   |   |
| <input checked="" type="checkbox"/> The Hobbit         |   |   |
| <input type="checkbox"/>                               |   |   |

Get Book Get Book Quantity

Reset Exit Total Price Rs. 1350

## Question 3

### Source Code

```
float op1 = 0, op2 = 0, answer = 0;
4 references
void getOperands(){
    op1 = float.Parse(textBox1.Text);
    op2 = float.Parse(textBox2.Text);
}
4 references
void setResult() { textBox3.Text = "" + answer; }
1 reference
private void button5_Click(object sender, EventArgs e){
    textBox1.Clear();
    textBox2.Clear();
    textBox3.Clear();
}

1 reference
private void button2_Click(object sender, EventArgs e){
    getOperands();
    answer = op1 - op2;
    setResult();
}

1 reference
private void button3_Click(object sender, EventArgs e){
    getOperands();
    answer = op1 * op2;
    setResult();
}
```

```
1 reference
private void button4_Click(object sender, EventArgs e){
    getOperands();
    try{
        answer = op1 / op2;
    }catch(DivideByZeroException exception){
        throw exception;
    }
    setResult();
}

1 reference
private void button6_Click(object sender, EventArgs e){
    Application.Exit();
}

1 reference
private void button1_Click(object sender, EventArgs e){
    getOperands();
    answer = op1 + op2;
    setResult();
}
```

## Output

A screenshot of a web application titled "Simple Calculator for CUSIT Students". The interface includes two input fields for operands, a set of arithmetic operation buttons, and an output field for the answer. In this state, Operand 1 is 5, Operand 2 is 5, and the Answer is 10. The addition button (+) is highlighted with a blue border. Buttons for subtraction (-), multiplication (x), and division (/) are also present, along with "Reset" and "Exit" buttons.

Simple Calculator for CUSIT Students

Operand 1

Operand 2

Answer

A second screenshot of the same calculator application. In this state, Operand 1 is 50, Operand 2 is 5, and the Answer is 45. The subtraction button (-) is highlighted with a blue border. The other buttons and layout remain the same as in the first screenshot.

Simple Calculator for CUSIT Students

Operand 1

Operand 2

Answer

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### Simple Calculator for CUSIT Students

Operand 1

Operand 2

Answer

8440 - Umair Jibran

### Simple Calculator for CUSIT Students

Operand 1

Operand 2

Answer

## Question 4

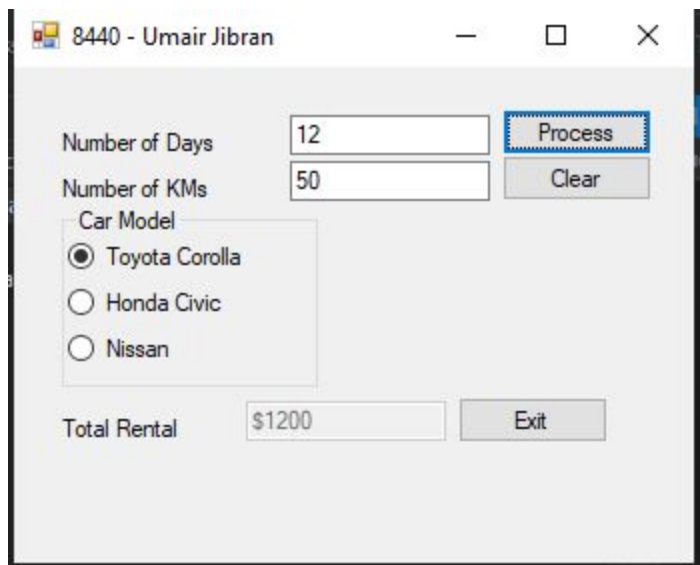
### Source Code

```
String carModel = "";
float rent = 00;
1 reference
private void radioButton1_CheckedChanged(object sender, EventArgs e) { carModel = "C"; } //corola
1 reference
private void radioButton2_CheckedChanged(object sender, EventArgs e) { carModel = "H"; } //Honda Civic
1 reference
private void radioButton3_CheckedChanged(object sender, EventArgs e) { carModel = "N"; } //Nissan
1 reference
private void button1_Click(object sender, EventArgs e){
    float days = float.Parse(textBox1.Text);
    float mileage = float.Parse(textBox2.Text);
    switch (carModel){
        case "C":{ //Corolla
            rent = 2 * (days * mileage);
            break;
        }
        case "H":{ //Honda
            rent = 3 * (days * mileage);
            break;
        }
        case "N":{ //Nissan
            rent = 4 * (days * mileage);
            break;
        }
    }
    textBox3.Text = "$" + rent;
}
```

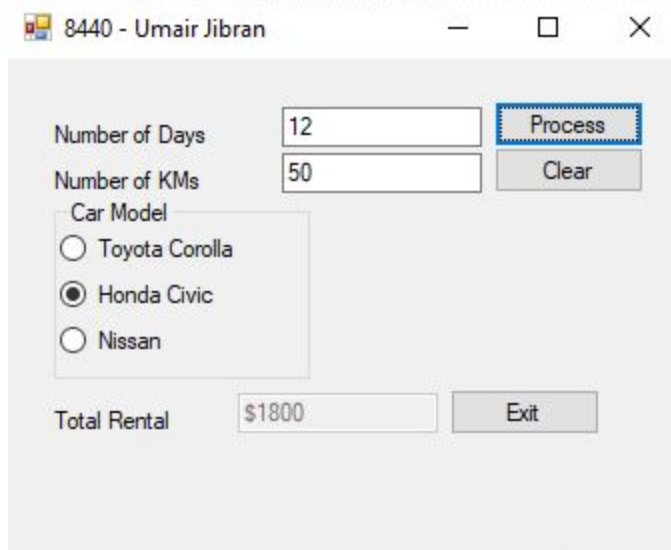
```
1 reference
private void button2_Click(object sender, EventArgs e)
{
    textBox1.Clear();
    textBox2.Clear();
    textBox3.Clear();
}

1 reference
private void button3_Click(object sender, EventArgs e)
{
    Application.Exit();
}
}
```

## Output



A screenshot of a Windows application window titled "8440 - Umair Jibran". The window contains a car rental calculator interface. It has two input fields: "Number of Days" with the value "12" and "Number of KM's" with the value "50". To the right of these fields are two buttons: "Process" (highlighted with a blue dashed border) and "Clear". Below the input fields is a "Car Model" section with three radio button options: "Toyota Corolla" (which is selected), "Honda Civic", and "Nissan". At the bottom, there is a "Total Rental" field displaying "\$1200" and an "Exit" button.



A second screenshot of the same "8440 - Umair Jibran" application window. In this state, the "Car Model" section has "Honda Civic" selected with the radio button. The "Number of Days" and "Number of KM's" fields remain at "12" and "50" respectively. The "Process" button is still highlighted. The "Total Rental" field now displays "\$1800", reflecting the change in car model. The "Exit" button remains visible.

8440 - Umair Jibran

Number of Days

Number of KMs

Car Model

☐ Toyota Corolla

☐ Honda Civic

☒ Nissan

Total Rental

## Question 5

### Source Code

```
1 reference
private void button1_Click(object sender, EventArgs e){
    WebClient myWebClient = new WebClient();
    string remoteUri = textBox1.Text.ToLower();
    string fileName;
    string[] domainBreakdown= remoteUri.Split('/');
    fileName = domainBreakdown[domainBreakdown.Length-1];
    myWebClient.DownloadFile(remoteUri, fileName);
    MessageBox.Show("Successfully Downloaded File " + fileName + " from " + remoteUri);
}
```

### Output

