Question (1): Put (√) or (x):

1. Testing a Program mean writing all steps taken for solving the problem.   (   )
2. We can change the location of placing Button on the Form by "Size" Property.   (   )
3. "Text" Property defining (shape, size and effect) of the Text font appeared on the Button, (   )
4. IDE is represented by Visual Studio.   (   )
5. To open a code window press F7 from keyboard.   (   )
6. RightToLeft" property set the layout of Controls on the form Window from Right to Left.   (   )

Question (2): (A): Choose the Correct Answer from Brackets:

1. The Control tool which can be used on the Form to choose. Gender of the student "male" or "female" is: ……………… (RadioButton – CheckBox – TextBox)
2. Characteristics which describe 'the object such as size, -name and color are called …………… (Procedures – Properties – Events).
3. A drop-down menu that displays the names of controls on the form called ……………. (IDE – Method Name – Class Name)
4. In Flowchart the symbol …………………..……… is used to represent the data input Operation
   (▭ – ⬭ – ◇)
5. C1ick.on Button is consider ………………… (Event – Property – Procedure)

(B) Complete the following flowchart to print the Result of dividing two numbers, if the divisor equal (zero) the message displays 'Undefined".
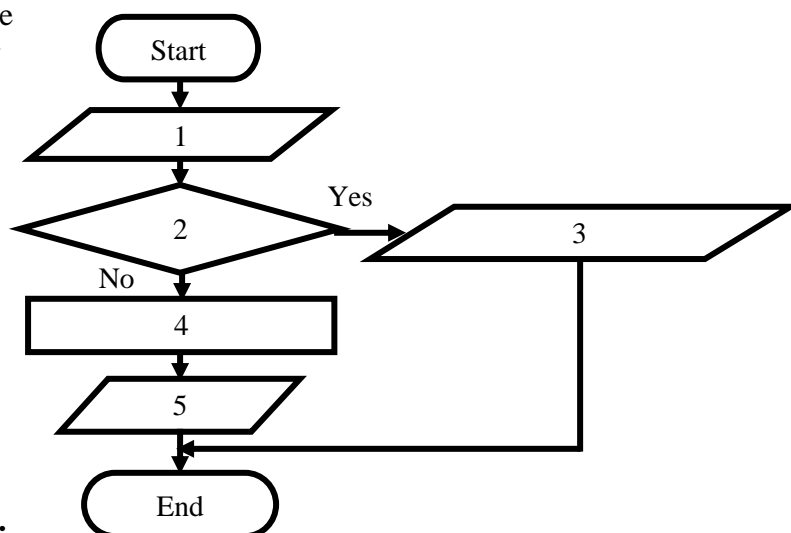
Notes that:

The Result is R

First Number A

Second Number B

Question (3): Complete the following sentences:

1. The property …………… defines whether the elements in the "ListBox" are sorted or not.
2. You can adjust the properties programmatically using the following syntax:
   ControlName • ………………… = Value
3. VB.Net is considered …………………… as commands and. instructions are carried out as soon as certain event.
4. There are properties of the form, if they are set, they are applied to Controls which are placed on this Form such as ……….………………

(GOOD LUCK)

Question (1): Put (√) next to the correct sentence and (X) next to the wrong one:

1. VB.Net is one of the high level programming languages.   (   )
2. Flow charts are useful in explaining the program to others.   (   )
3. AutoSize is used to choose the Border Style of the Label.   (   )
4. Every object in VB.Net has properties, events and procedures.   (   )
5. AutoCompleteSource is one of the ComboBox properties.   (   )
6. Method name displays the names of the controls placed on the Form.   (   )

## Question (2): Choose the correct answer:

1. To open the code window from keyboard press the key ……… (F5 – F7 – F2 – F1)
2. A control tool used to choose the Gender of student "male" or "female" is ……………… (Text Box – GroupBox – Label – RadioButton)

3. Writing all the steps that taken to solve the problem is named …………………………… (Program Testing – Flow Charts – Program Documentation – Problem Definition)
4. A list of the folders and files of the project are shown in ……………………… (Form – ToolBox – Solution Explorer – Properties Window)
5. The property which its effect appears in the run time mode only is ………………………… (RightToLeft – WindowState – ControlBox – MinimizeBox)

Question (3): The following flow Chart is to calculate the sum of two numbers and show the result:

Requied: Type the number next to the correct command:

C = A + B	( )
Start	( )
Output C	( )
End	( )
Enter A And B	( )
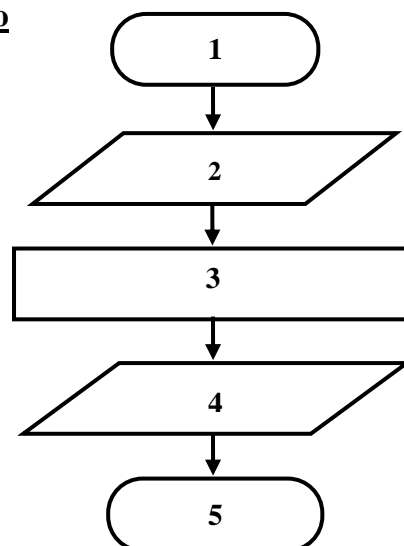
Question (4):

Privet Sub Button1_Click (Sender As Object, C As Event Args) Handles Button1.Click

Label1.Text = "جمهورية مصر العربية"

End Sub

Complete the following using the previous code:
1. …………………………… is the control tool that the result appears on.
2. …………………………… is the property name.
3. …………………………… is the value of the property.
4. …………………………… is the end of the procedure line.

(GOOD LUCK)

(3) AL KALYOUBIA GOVERNORATE 2018 - 2019

Question (1): Complete the following:
1. The properties of the active item can be set through the …………… window or programmatically through the ………… window.
2. The …………………………. menu displays events for the selected item from the Class Name menu.
3. ………………… contains controls that can be placed on the form window.
4. ………………………… is a situation that requires a solution or an objective to be achieved.
5. A control tool to display certain text on the form that cannot be changed while running the program is …………………

Question (2): (A) Give the reason:
1. The framework contains compiler.
2. The possibility of writing on more than one line within the Text Box tool.

(B) What is the result of:
1. Set the value True of the property Sorted of the ListBox tool.
2. Set the property ControlBox to value False.
3. Set the property AutoSize to True for the Label tool.

Question (3): Write the scientific term for each sentence of the following:
1. A tool that allows the user many choices and can choose any number of them.
2. A standard diagram showing the steps of the problem.
3. A key to be pressed from the keyboard to open the code window.
4. Tools are placed on it to design the program interface.
5. The default value for the property Name and the property Text.

Question (4): Using the following flow chart, answer the following:

```
                              ┌─────────────┐
                              │    Start    │
                              └──────┬──────┘
                                     │
                              ┌──────▼──────┐
                              │    N = 1    │
                              └──────┬──────┘
                                     │
                              ┌──────▼──────┐
                              │   Sum = 0   │
                              └──────┬──────┘
                  ┌──────────────────┤
                  │           ┌──────▼──────┐
                  │           │ Sum = Sum + N│
                  │           └──────┬──────┘
                  │           ┌──────▼──────┐
                  │           │  N = N + 1  │
                  │           └──────┬──────┘
              False             ┌────▼────┐
                  └─────────────│  N > 3  │
                                └────┬────┘
                                  True│
                              ┌──────▼──────┐
                              │  Print Sum  │
                              └──────┬──────┘
                              ┌──────▼──────┐
                              │     End     │
                              └─────────────┘
```

1. The purpose of the chart:

   …………………………………………

2. The number of repetitions: ………

3. The value of N that ends the iterative loop:

   …………

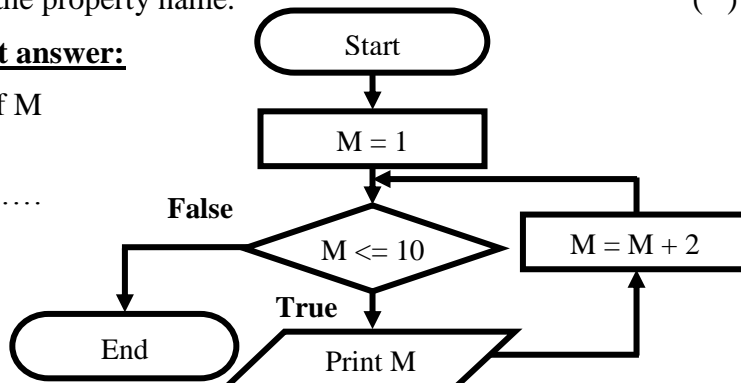4. The value of Sum: …………
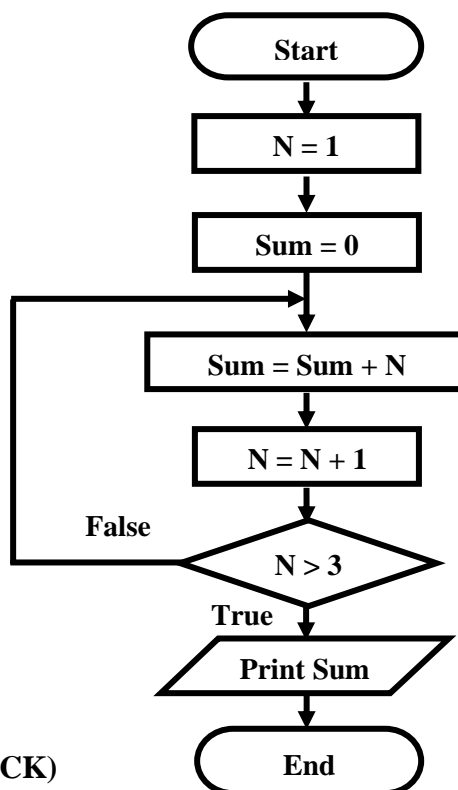
(GOOD LUCK)

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(4) AL SHARQIA GOVERNORATE 2018 - 2019

Question (1): (A) Put (√) next to the correct sentence and (X) next to the wrong one:

1. Flow charts use standard symbols and lines to represent steps to solve a problem.   ( )
2. VB.NET is the only high level language.   ( )
3. In the Properties window, the right column has the property name.   ( )

(B) In the following flowchart choose the correct answer:

1. The number of iterations of printing the value of M is ……… (10 - 5- 6)

2. The value of M after the iteration loop is ………… (9 -10 -11)

```
                    ┌─────────────┐
                    │    Start    │
                    └──────┬──────┘
                    ┌──────▼──────┐
                    │    M = 1    │
                    └──────┬──────┘
          False      ┌─────▼─────┐         ┌─────────────┐
        ┌────────────│  M <= 10  │◄────────│  M = M + 2  │
        │            └─────┬─────┘         └─────────────┘
   ┌────▼────┐         True│                      ▲
   │   End   │       ┌─────▼─────┐                │
   └─────────┘       │  Print M  │────────────────┘
                     └───────────┘
```

Question (2): Choose the correct answer between the parentheses in the following:

1. Libraries, compilers and the runtime environment are the most important components of …………………… (.Net Framework – Event Driven – Object Oriented)
2. The property that shows the effect of setting it for the form window only in the runtime mode is ………………………… (RightToLeft – WindowState – FormBorderStyle)
4. All of the following properties are of the TextBox control except the property ………………… (MaxLength – MultiLine – AutoSize)
5. The control that can be used on the form window to select the gender of student male or female is ……………………… (Check Box - Text Box - Radio Button)
6. Writing all the steps taken to solve the problem is called ……………………… (Program Testing – Program Documentation – Flow Chartss)

Question (3):

Write the solution steps only without drawing the flow chart to print the result of dividing two numbers and if the divisor is zero, the message "undefined" appears.
Note: Assuming the first number is Num1 and the second number is Num2 and output is R.

Question (4): (A) Mention the function of each of the following properties:
1. Controlbox
2. SelectionMode

(B) Define the following:
1. Tool Box
2. The Class Name menu
3. The Form

(GOOD LUCK)

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(5) AL DAKAHLIA GOVERNORATE 2018 - 2019

Question (1): (A) Rewrite the following sentences in your answer sheet after correcting the underlined:
1. The <u>Code Window</u> contains the Controls that are placed on the Form.
2. The property <u>Sorted</u> makes the RadioButton tool active selected.
3. The <u>problem</u> is a graphic representation based on drawing using standard forms to illustrate the steps to solve the problem.
4. The <u>CheckBox</u> tool is used to display a list of items to select one or more items.
5. <u>TextBox</u> tool allows the execution of tasks or commands when pressed.
6. At the stage of <u>defining the problem</u>, we write down all the steps and procedures taken to solve the problem.

(B) Write down the function of the following:
1. Class Name menu in the code window.
2. The property Items of the ListBox tool.
3. Solation Explorer Window
4. Property Font.

Question (2): (A) Complete the following word:
1. To control the boarders of the form we use the property ………………………
2. The default value of the property Name and the property Text of Form1 is ………………………
3. The fourth stage of solving the problem is ………………………
4. ……………………… is a procedure that contains code to be executed when the associated event occurs.
5. The property used for TextBox to determine the maximum number of characters within the tool is …………

(B) From the following code: Text Box1. MultiLine = true Complete the following:
1. The name of the used property ………………………
2. The name of the used tool ………………………
3. The value of the property is ………………………
4. Output of execution of the code …………………

Question (3): (A) Select the correct answer from the brackets:
1. To change the text color on the tool we use the property …………… (BackColor – ForeColor – Font – Size)
2. To change the size of the Button tool on the Form height and width we use the property …………… (Size – Location – Font – AutoCompleteSource)
3. A group of commands and instructions that are executed when a certain event is called ……………………… (Properties – Actions – Events – Objects)
4. Used in containing control tools same function on the Form ……………………… (Form – GroupBox – ToolBox – Button)
5. ……………………… is a set of logically arranged steps to reach a specific objective (Flow Charts – algorithm – Programs – Problem)

(B) Draw a flow chart to solve a first degree equation: Y = 3 X + 2

(GOOD LUCK)

Question (1): Complete the following Sentences:
1. ………………………. stage translates the flow chart using one of the programming languages.
2. ……………………… contains the control tools that can be placed on the Form Window.
3. …………………… is a tool used to display text on the form window that cannot be changed while the program is running.
4. The ListBox control tool and the ComboBox control tool share the property ………………
5. ……………………… is a procedure that contains a code that is executed when the associated event occurs.

Question (2): Put sign (√) in front of the correct statement and sign (X) in front of the wrong one:
1. A problem means a situation that requires a solution or an objective to be reached. ( )
2. The Label tool can be manually resized if AutoSize = True . ( )
3. Automatic insertion of controls on the Form window is in location 0, 0 in the middle of the Form window. ( )
4. Flow charts use standard symbols and lines to represent steps to solve a problem. ( )
5. Properties can be set programmatically using the formula ControlName.Property = Value . ( )

Question (3): choose the correct answer between the brackets in following:
1. The property ……………… is used to specify the text shown on the title bar of the Form window. (Text – Font – Name)
2. The term Event refers to ……………………………………………… (Properties that describe the object – Events that can occur on the object – Commands and instructions that are executed)
3. You can change the position of the command Button on the form window using the property ………………… (Size – Location – AutoSize)
4. The Class end line is ……………… (Form1.Vb – End Sub – End Class)
5. IDE refers to ……… (.NET Framework – Visual Studio – Visual Basic.net)

Question (4): (A) Study the following flow chart and answer the following questions:

1. The symbol expressing the decision process ……………
2. M = …………… means increasing the value of the variable by 1
3. The number of repetitions of the iterative loop ………
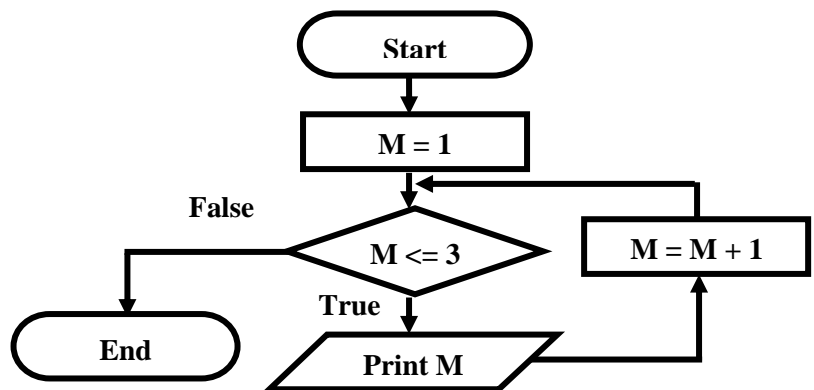
(B) Read the code then answer:

Label1.BackColor = Color.Red
1. Name of the tool or object …………
2. The value is ………………

(GOOD LUCK)

Question (1): Put (√) or (x):
1. The Label tool can be manually resized if AutoSize = False. ( )
2. Problem-solving is the steps, activities and processes that are taken to reach an objective or output. ( )
3. Program Documentation means to ensure that it is free of errors. ( )
4. The Text property is used to show certain text in the title bar of the user Form window. ( )
5. The rectangle symbol is used to express the input of the data. ( )

Question (2): Complete using the following words to make the sentence correct:
(Flow Chart – Events – Font – RadioButton – CheckBox)
1. The control that can be used on the form window to select the gender of student male or female is …………
2. The property responsible for the shape, size and effect of the text shown on the command Button …………

3. The control tool that can be used on the form window to allow the user to choose more than one alternative is …………………
4. A graphical representation using standard symbols to illustrate the order of operations needed to solve a specific problem ………………
5. The term ……………… refers to events that may occur on the object.

Question (3): (A) Write the scientific term which refers to each of the following:
1. A tool to enter text data from the user of the program while the program is running.
2. One of the high-level programming languages and designed to be easy to learn as the commands and instructions use the vocabulary of the English language.
3. A tool used to contain the controls of the same function on the Frorm.

(B) Write what the numbers indicate in the general formula of setting control tools properties programmatically:

ControlName.Property = Value

1   2   3

Question (4): Answer the questions in column (A) using the flow chart in column (B):

Column (A)	Column (B)
1. The purpose of the chart is: ……………………………… 2. The repetition statement that prints the result is: ……………………………… 3. The expression N = N + 1 means: …………………………………… 4. The output to be printed is: ………………	**Start** N = 4 **False** N <= 7 N = N + 1 **True** **End** **Print N**

(GOOD LUCK)

(8) GHARBIA GOVERNORATE 2018 - 2019

Question No. (1): (A) Draw a flowchart for a program to print numbers 1 through.
(B): Write name of property that performs the following functions;

No.	Property	Function
1.	………………	To change the position of the Button on the form window.
2.	………………	Specifies the set of items that are displayed in the List Box.
3.	………………	Allows multiple lines within the TextBox control.

Question No. (2): Choose the correct answer between brackets:
1. The term Procedure refers to ……………………………………………… (Properties that describe the object – Events that can occur on the object – Commands and instructions that are executed)
2. In the code Label1.AutoSize = True; the part Label expresses ………… (Value – ControlName – Property)
3. You can develop desktop or web applications using …………………… (Objects in computer memory – programming language VB.Net – properties and events)
4. The following properties are all of the TextBox control except the property ………………… (MaxLength – MultiLine – AutoSize)
5. The control tool used on the Form to insert several alternatives so that the user can choose one or more alternatives ……………… (ComboBox - CheckBox – GroupBox)
6. Libraries, compilers and applications runtime environment are of the most important components of the ……………… (Object Oriented – Event Driven – .Net Framework)

Question No. (3):

(A): Write a code to change The text on the command button Button1 to "End" using the property Text.

(B) Write the Scientific term:

1. (………………) is a menu in the code window showing the names of the control tools placed on the Form.
2. (………………) is a tool used to display text on the Form window that cannot be changed while the program is running.
3. (…………………) is a step in solving the problem in which the required outputs, the available inputs and the arithmetic or logical processes are determined.
4. (…………………) is a property that controls the display or hide of the control box in the form window.

(GOOD LUCK)

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(9) AL BEHAIRA GOVERNORATE 2018 - 2019

Question (1): Put (√) or (x):

1. Flow charts do not help and facilitate to understand the problem, analyze it and turn it into a program. ( )
2. VB.net programming language is the only high-level language. ( )
3. The .NET Framework contains the compilers, libraries and runtime environment of the .Net programs. ( )
4. Each object has certain properties and procedures it performs when a particular event occurs. ( )
5. The rectangular shape is used to represent the decision-making process in flow charts. ( )

Question (2): Complete the following:

1. The property ………………… specifies the status of the Form window (Maximized, Minimized or Normal)
2. ……… is a tool used to display text on the Form window that cannot be changed while running the program
3. The set of procedures arranged logically to solve a specific problem is called ………………………
4. A window to write the program commands and instructions is called ………………………………
5. The property responsible for the shape, size, and effect of the text on the command button is …………

**Question (3): (A) Choose the correct answer from the brackets:**

1. Object-oriented programming languages are based on ……………………… (Using desktop applications – Using Web applications – Objects in computer memory)
2. One of the following properties is unique to the object TextBox ……… (PasswordChar – Name – AutoSize)
3. The control tool used to contain a group of controls with the same function on the Form is ……………… (GroupBox – ListBox – ComboBox)

(B): Explain the following codes in the light of your study of the general formula for setting the properties programmatically

1. Label1.Text = "Egypt"   2. Label2.AutoSize = True

Question (4): (A) From the following flow chart:

1. The number of repetitions (printing the value of M) is …………………

2. The value of M after the end of the loop is …………………
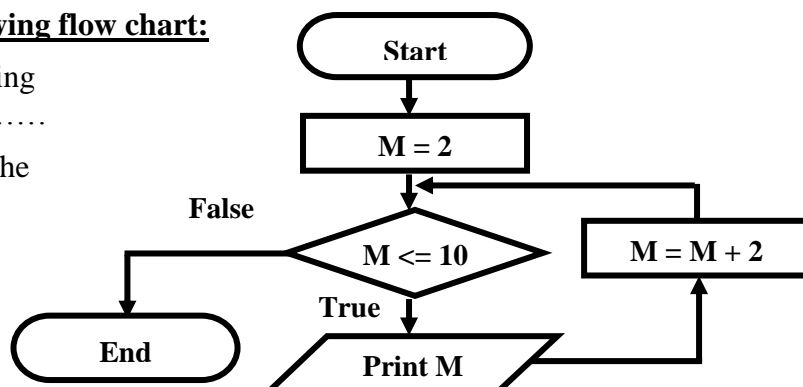
(B): Draw a flow chart to calculate the area of a rectangle knowing the length L and width W:
   **Note that the equation for calculating the rectangle is Area = L * W.**

(GOOD LUCK)

Look at the next picture and then answer

Q1– A) Complete the sentence

1. We used control tool ……………… to enter the first number.
2. We used control tool ……………… to Choose the operation.
3. To display the result we used and used the ……………… and used the property ……………… to make single border.
4. To change the caption of groupbox1 to "Chose operation" write code …………………………………
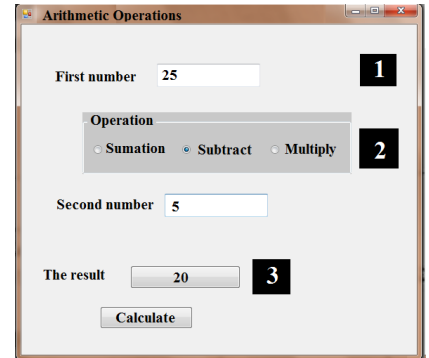
B) Put (√) in front of the correct statement and (x) in front of the wrong one

1. The RightToLeftLayout property was used to adjust the writing direction from right to left and make its value yes. ( )
2. When we draw a flow chart for this project we use any Geometric shape. ( )
3. To insert the Button by double clicking on button control in properties window. ( )
4. To open code window by pressing the key F7 from key board. ( )
5. To produce this project by problem solving stages was the first step is to design the program on the computer. ( )

Q2– The project was carried out according to the following step

1. start
2. enter the first number NI , second number N2, operation OP
3. If OP = "+" then
   3.1. Res = N1 + N2
4. Else
   4.1. If OP.= "- " then
       4.1.1. Res = NI – N2
   4.2. Else
       4.2.1. Res = N1 * N2
5. Print Res
6. end

1- please draw flowchart for previous steps
2- If we enter the value N1 = 5, N2 = 10 , OP = "*" what is value of res will printed

Q3– A) Complete sentences using the following suitable words

(Algorithm – ComBox – AutoCompleteMode – program documentation - Solution Explorer – toolbox – IDE – IPO – VB.net – .net framwork – program testing)

1. This program is designed using the integrated development environment it called …………… and This was with the help of ……………… which provides libraries, compilers and run time for .net applications.
2. …………… tool can be used to select one operation (select only one item) which has the Property ....…................. it defines the method of list completing process.
3. The steps of the solution were presented using …………… which is a series of logical steps to solve the problem.
4. After the completion of the design of the program must begin …………. stage to ensure that the program is free errors and then comes the stage …………………… is writing down all the steps taken to solve a problem.
5. To view the list of files and folders of the projects we use the …………
6. To write the required code for the calculate button in the …………… It's a procedure which contains a code that is carried out when a corresponding event occurs.

B) When this project is done, some terminologies are used some to type a definition of terminologies for the following

1. Problem
2. Form
3. Code window

(GOOD LUCK)