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| Day16 Morning Assignment  By  Anusha Bellala  14-2-2022 |

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| 1. WACP to print Hello World  Hint: Think object oriented |
| Code: |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Day16Project1  {  class Message  {  public static void PrintHello()  {  Console.WriteLine("Hello");  }  }  internal class Program  {  static void Main(string[] args)  {  Message.PrintHello();  Console.ReadLine();  }  }  } |
| Ouput: |

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| 2. WACP to read a number from user and print factorial of it.  Hint : Think object oriented |
| Code: |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Day16Project2  {  class Mathematics  {  int input;  public void ReadData()  {  Console.WriteLine("Enter any number:");  input = Convert.ToInt32(Console.ReadLine());  }  public int GetFactorial()  {  int fact = 1;  for (int i = 1; i <= input; i++)  fact = fact \* i;  return fact;  }  }  internal class Program  {  static void Main(string[] args)  {  Mathematics m=new Mathematics();  m.ReadData();  Console.WriteLine(m.GetFactorial());  Console.ReadLine();  }  }  } |
| Output: |

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| 3. For the console application created in 2nd task, add screen shot of the .exe file location |
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| 4. Create a Class Library Project with name as  <YourName>Library ( Example : MeganadhLibrary )  Create a class Mathematics as discussed in the class.  [ Add methods for reading number and finding factorial ]  Re-Build the project and you will a .dll file.  ( Put the screen shot of this )  Copy the dll file to your desktop  (put the screen shot of this ) |
| Code: |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace AnushaLibrary  {  public class Mathematics  {  int input;  public void ReadData()  {  Console.WriteLine("Enter any number:");  input = Convert.ToInt32(Console.ReadLine());  }  public int GetFactorial()  {  int fact = 1;  for (int i = 1; i <= input; i++)  fact = fact \* i;  return fact;  }    }  } |
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| 6. WACP to print multiplication table of a number |
| Code: |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Day16Poject3  {  class MultiplicationTable  {  int input;  public int ReadInput()  {  Console.Write("\n Enter any Number To Print its Multiplication Table : ");  input = int.Parse(Console.ReadLine());  Console.WriteLine("\n\n::: Displaying the Multiplication Table for {0} :::\n", input);  return input;  }  public void PrintMulTable()  {  for (int i = 1; i <= 10; i++)  {  Console.WriteLine("{0} x {1} = {2}", input, i, input \* i);  }  Console.WriteLine();  }  internal class Program  {  static void Main(string[] args)  {    MultiplicationTable table = new MultiplicationTable();  table.ReadInput();  table.PrintMulTable();  Console.ReadKey();  }  }  }  } |
| Ouput: |

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| 7. WACP to check if the given is number is Palindrome or not |
| Code: |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Day16Project4  {  class Palindrome  {  int input;    public int ReadInput()  {  Console.Write("\nEnter Any Number To Check, If Palindrome Or Not : ");  input = int.Parse(Console.ReadLine());  return input;  }    public bool IsPalindrome()  {  int rev = 0, rem, m;  m = input;  while (m > 0)  {  rem = m % 10;  m = m / 10;  rev = rev \* 10 + rem;  }  if (input == rev)  return true;  else  return false;  }  }  internal class Program  {  static void Main(string[] args)  {  Palindrome palindrome = new Palindrome();  int input = palindrome.ReadInput();  bool isPalindrome = palindrome.IsPalindrome();    if (isPalindrome == true)  Console.WriteLine("\nYes, {0} Is a Palindrome Number", input);  else  Console.WriteLine("\nNo, {0} is Not a Palindrome Number", input);  Console.ReadLine();  }  }  } |
| Output: |

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| 9. Add one more project (windows application)  Add some 3 or 4 screen shots just to prove that  you have done this. |
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| Code: |
| using System;  using System.Collections.Generic;  using System.ComponentModel;  using System.Data;  using System.Drawing;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  using System.Windows.Forms;  using AnushLibrary;  using PublicLibrary;  namespace MyWindowsApp1  {  public partial class Form1 : Form  {  public Form1()  {  InitializeComponent();  }  private void button1\_Click(object sender, EventArgs e)  {  int input = Convert.ToInt32(textBox1.Text);  int factorial = Mathematics.Factorial(input);  textBox2.Text = factorial.ToString();  }  }  } |
| Ouput: |