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| |  | | --- | | DAY – 16 ASSIGNMENTS  DATE :14/02/2022  DAY :MONDAY    DONE BY : M.SAI HARI CHANDANA | | 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 Day\_16\_project\_1  {  class Message  {  public static void PrintHello()  {  Console.WriteLine("Hello");  }  }  internal class Program  {  static void Main(string[] args)  {  Message.PrintHello();  Console.ReadLine();  }  }  } | | OUTPUT : | | 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 ConsoleApp2  {  class Mathematics  {  int input;  public void ReadData()  {  Console.WriteLine("Enter 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 obj = new Mathematics();  obj.ReadData();  Console.WriteLine(obj.GetFactorial());  Console.ReadLine();  }  }  }  } | | OUTPUT : | | 3.put the console application created in 2nd task add screen shot |      |  | | --- | | 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 Chnadana\_library  {  internal class Mathematic  {  public void Add(int a,int b)  {  Console.WriteLine(a +b);  }  public void Mul(int a ,int b)  {  Console.WriteLine(a\*b);  }  }  } | | OUTPUT : | |  |   5.   |  | | --- | | A.MATHEMATICS :  using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace ChandanaLibrary  {  public class Mathematics  {  public int Add(int a, int b)  {  return (a + b);  }  public int Mul(int a, int b)  {  return (a \* b);  }  }  } | | B.PHYSICS :  sing System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace ChandanaLibrary  {  public class physics  {  public int FinalVelocity(int a, int u, int t)  {  return u + a \* t;  }  }  } | | C.CHEMISTRY :  using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace ChandanaLibrary  {  public class chemistry  {  public string GetBenzene()  {  return "c6H6";  }  public string GetWater()  {  return "H2o";  }  public string GetMethane()  {  return "cH4";  }  }  }   |  | | --- | | namespace Day16Assignments  {  public class Program  {  static void Main(string[] args)  {  physics p = new physics();  Console.WriteLine(p.FinalVelocity(5, 6, 7));  chemistry c = new chemistry();  Console.WriteLine(c.GetBenzene());  Console.WriteLine(c.GetWater());  Console.WriteLine(c.GetMethane());  Mathematics mathematics = new Mathematics();  Console.WriteLine(mathematics.Add(5, 2));  Console.WriteLine(mathematics.Mul(3, 5));  Console.ReadLine();  }  }  } | | OUTPUT : | |  | | |

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| 6.WACP to print multiple table of a number ? |
| CODE :  sing System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace ConsoleApp6  {  public class Table  {  public void M\_table(int a)  {  int i = 1;  while (i < 11)  {    {  Console.WriteLine($"{a}X{i}={a \* i}");  i++;  }  }  } |
| OUTPUT : |
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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 ConsoleApp.\_7  {  public class IsPalendrome  {  private int temp;  public void Check(int a)  {  int r = 0; temp = a;  bool flag = false;  while (a > 0)  {  int c = a % 10;  a = a / 10;  r = r \* 10 + c;  }  if (temp == r)  {  Console.WriteLine(r + "its apalendrome");  }  else  {  Console.WriteLine((r + "its not a palendrome"));  }  }  }  internal class Program  {  static void Main(string[] args)  {  var X=new IsPalendrome();  X.Check(123);  Console.ReadLine();  }  }  } |
| OUTPUT : |
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| 8. Create a solution "MyProject" (as discussed in class)  Add three projects  a. YourNameLibrary (and add any class with methods)  b. PublicLibrary (add any class with methods)  c. ClientApp (and here refer above two libraries)  Note : If you are confused., see the video |
| CHEMISTRY :  using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  using PublicLibrary;  namespace CleintApp1  {  public class Program  {  static void Main(string[] args)  {  Mathematics m = new Mathematics();  Console.WriteLine(m.Add(5,6));  Console.WriteLine(m.Mul(5,6));  Console.ReadLine();  }  }  } |
| MATHEMATICS:  using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  using PublicLibrary;  namespace PublicLibrary  {  public class Mathematics  {  public int Add(int a, int b)  {  return a + b;  }  public int Mul(int a, int b)  {  return a \* b;  }    }  } |
| CLIENTAPP:  using PublicLibrary;  namespace CleintApp1  {  public class Program  {  static void Main(string[] args)  {  Mathematics m = new Mathematics();  Console.WriteLine(m.Add(5,6));  Console.WriteLine(m.Mul(5,6));  Console.ReadLine();  }  }  } |

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| OUTPUT : |

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| 10.Research and write what is the of partial classes in c#  WRITE example code and put screen shot ? |
| USES OF PARTIAL CLASSES:   * IT provides a special ability to implement the functionality of a single class into multiple files and all these files are combined into a single class file when the application is complied . |
| CODE :  using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  using ChandanaLibrary;  namespace Day16Assignments  {  public class Program  {  static void Main(string[] args)  {                  /\*physics p = new physics  \* Console.WriteLine(p.FinalVelocity(5, 6, 7));  chemistry c = new chemistry();  Console.WriteLine(c.GetBenzene());  Console.WriteLine(c.GetWater());  Console.WriteLine(c.GetMethane());\*/  Mathematics mathematics = new Mathematics();  Console.WriteLine(mathematics.Add(5, 2));  Console.WriteLine(mathematics.Mul(3, 5));  Console.WriteLine(mathematics.sub(5,2));  Console.WriteLine(mathematics.div(8,6));  Console.ReadLine();    }  }  } |
| OUTPUT : |