Day 10 Morning Assignment

By

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04-02-2022

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| 1.Write the two points discussed about inheritance in the class |
| * Inheritance is the process of reusing base class methods in the derived class * Inheritance main goal is reusability and to remove duplicate code |
| 2.What is polymorphism |
| * Polymorphism is the ability of an object to take on many forms * Types of polymorphism * Method overloading * Method overriding |
| 3.why multiple inheritance is not supported for classes in c# |
| * In Multiple inheritance one class can have more than one superclass and inherit features from all its parent classes.but c# does not support multiple class inheritance |
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| Write example code for |
| (a)Single inheritance |
| using \_10th\_day\_project1;  using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace \_10th\_day\_project1  {  class algebra  {  public int add(int a, int b)  {  return a + b;  }  }  class totalmaths : algebra  {  public int mul (int a, int b)  {  return (a \* b);  }    }  internal class Program  {  static void Main(string[] args)  {  totalmaths tm = new totalmaths();  Console.WriteLine(tm.add(5,6));  Console.WriteLine(tm.mul(5,6));  Console.ReadLine();  }  }  } |
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| Output: |
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| (b)Multilevel inheritance |
| Code: |
| using \_10th\_day\_project2;  using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace \_10th\_day\_project2  {  class sudheer  {  public int add(int a, int b)  {  return a + b;  }  }  class totalmaths : sudheer  {  public int mul(int a, int b)  {  return (a \* b);  }  }  class saisubjects : totalmaths  {  public string sai()  {  return "yuvi";  }  }  internal class Program  {  static void Main(string[] args)  {  saisubjects tm = new saisubjects();  Console.WriteLine(tm.add(5,6));  Console.WriteLine(tm.sai());    Console.ReadLine();  }  }  } |
| Output: |
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| 4.write sample code for method overloading |
| Code : |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace \_10th\_day\_project3  {  class sai  {  public int add (int a, int b)  {  return a + b;  }  public int add (int a, int b, int c)  {  return a + b + c;  }  public int add (int a, int b, int c, int d)  {  return a+b + c + d;  }  }  internal class Program  {  static void Main(string[] args)  {  sai pn = new sai();  Console.WriteLine(pn.add(5,6));  Console.ReadLine();  }  }  } |
| Output: |
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| 5.write sample code for methodoverriding |
| Code : |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace \_10th\_day\_project\_4  {  class english  {  public void printsai()  {  Console.WriteLine("sai");  }  public void printsudheer()  {  Console.WriteLine("sudheer");  }  public void printpavan()  {  Console.WriteLine("pavan");  }  }  class telug : english  {  public new void printpavan()  {  Console.WriteLine("yuvi");  }  }    internal class Program  {    static void Main(string[] args)  {  telug t1 = new telug();  t1.printpavan();        Console.ReadLine();  }  }  } |
| Output: |
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