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| DAY10 EVENING ASSIGNMENT  BY  PALURU MOUNIKA  06-02-2022 |

1. **What is an abstraction ?**

Object is one of the object-oriented programming languages.

Its main goal is to handle complexity by hiding unnecessary details from the user to implement more complex logic on top of the provided abstraction without understanding or even thinking about all the hidden complexity.

**2.write the 2 main uses of abstract class by using the example discussed in the class.**

1.code re-usability.

2.enforcing the derived class to must override the abstract calss.

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| Program: example of abstract class |
| Code: |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  //AUTHOR:PALURU MOUNIKA  //PUPOSE:ABSTRACT CLASS  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  namespace day10evng  {  /// <summary>  /// abstact class  /// </summary>  abstract class Salary  {  public int GetPF(int basic)  {  return 12 \* basic / 100;  }  public int GetHRA(int basic)  {  return 40\* basic/100;  }  public abstract int GetCA();  public abstract int GetSA();  }  /// <summary>  /// microsoft abstract class  /// </summary>  class microsoft:Salary  {  public override int GetCA()  {  return 30000;  }  public override int GetSA()  {  return 20000;  }  }  /// <summary>  /// Google abstract class  /// </summary>  class Google : Salary  {  public override int GetCA()  {  return 10000;  }  public override int GetSA()  {  return 30000;  }  }  /// <summary>  /// IBM abstract class  /// </summary>  class IBM : Salary  {  public override int GetCA()  {  return 40000;  }  public override int GetSA()  {  return 20000;  }  }  /// <summary>  /// facebook abstract class  /// </summary>  class facebook : Salary  {  public override int GetCA()  {  return 4000;  }  public override int GetSA()  {  return 6000;  }  }  internal class Program  {  static void Main(string[] args)  {  //microsoft  //Google  //IBM  //facebook  Console.WriteLine("completed processing");  Console.ReadLine();  }  }  } |

**3.creat one example to demonstrate abstract class.**

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| **Program: example of abstract class** |
| **Code:** |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  //AUTHOR:PALURU MOUNIKA  //PUPOSE:ABSTRACT CLASS  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  namespace day10evng  {  /// <summary>  /// abstact class  /// </summary>  abstract class Company  {  public string Companyname()  {  return "TCS";  }  public string Location()  {  return "Hydrabad";  }  public abstract int Id();  public abstract string name();  }  /// <summary>  /// system engineer abstract class  /// </summary>  class Systemengineer:Company  {  public override int Id()  {  return 100;  }  public override string name()  {  return "kavitha";  }  }  /// <summary>  /// developer abstract class  /// </summary>  class Developer : Company  {  public override int Id()  {  return 101;  }  public override string name()  {  return "Harshini";  }  }  /// <summary>  ///srcum mastar abstract class  /// </summary>  class Scrummaster :Company  {  public override int Id()  {  return 103;  }  public override string name()  {  return "chandana";  }  }  /// <summary>  /// facebook abstract class  /// </summary>  class Tester : Company  {  public override int Id()  {  return 104;  }  public override string name()  {  return "kiran";  }  }  internal class Program  {  static void Main(string[] args)  {  //systemengineer  //developer  //scrummastar  //Tester  Console.WriteLine("details entered successfully");  Console.ReadLine();  }  }  } |