Assignment 8 c#

Animals:

using System;

namespace MyApplication

{

abstract class Animal

{

public abstract void animalSound();

}

// Derived class (inherit from Animal)

class Cat : Animal

{

public override void animalSound()

{

// The body of animalSound() is provided here

Console.WriteLine("The cat says: meow meow");

}

}

class Dog : Animal

{

public override void animalSound()

{

// The body of animalSound() is provided here

Console.WriteLine("The dog says: bark bark");

}

}

class Program

{

static void Main(string[] args)

{

Cat myCat= new Cat(); // Create a cat object

myCat.animalSound();

Dog myDog= new Dog(); // Create a dog object

myDog.animalSound();

}

}

}

2. assignment-8 :question -2:

using System;

namespace ConsoleApp3

{

abstract class A

{

protected A()

{

Console.WriteLine("This is Constructor of abstract class");

}

public void Method()

{

Console.WriteLine("This is a normal method of abstract class");

}

public abstract void a\_method();

}

class Subclass : A

{

public override void a\_method()

{

Console.WriteLine("This is abstract method");

}

}

class Program

{

static void Main(string[] args)

{

Subclass sc = new Subclass();

sc.Method();

sc.a\_method();

}

}

}

3. data members:

using System;

namespace \_Assesment8

{

class Member

{

string name;

int age;

string address;

int salary;

string phone\_no;

public virtual void GetDetails()

{

Console.WriteLine("Enter name:");

name = Console.ReadLine();

Console.WriteLine("Enter age:");

age =Convert.ToInt32( Console.ReadLine());

Console.WriteLine("Enter address:");

address = Console.ReadLine();

Console.WriteLine("Enter salary:");

salary = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("Enter phone number:");

phone\_no = Console.ReadLine();

if (phone\_no ==@"^(\+[0-9])$")

{ }

}

public virtual void DisplayDetails()

{

Console.WriteLine("name is:" + name);

Console.WriteLine("age is:" + age);

Console.WriteLine("address is:" + address);

Console.WriteLine("salary is:" + salary);

Console.WriteLine("phone number is is:" + phone\_no);

}

public void printSalary()

{

Console.WriteLine("salary is" + salary);

}

}

class Manager:Member

{

string specialization;

string department;

public override void GetDetails()

{

base.GetDetails();

Console.WriteLine("Manager details:");

Console.WriteLine("Enter specialization of member");

specialization = Console.ReadLine();

Console.WriteLine("Enter department of member");

department = Console.ReadLine();

}

public override void DisplayDetails()

{

Console.WriteLine("Manager details is");

base.DisplayDetails();

Console.WriteLine("specialization is:" + specialization);

Console.WriteLine("department is:" + department);

}

}

class Employee:Member

{

string specialization;

string department;

public override void GetDetails()

{

base.GetDetails();

Console.WriteLine("employee details:");

Console.WriteLine("Enter specialization of member");

specialization = Console.ReadLine();

Console.WriteLine("Enter department of member");

department = Console.ReadLine();

}

public override void DisplayDetails()

{

Console.WriteLine("Employee details is");

base.DisplayDetails();

Console.WriteLine("specialization is:" + specialization);

Console.WriteLine("department is:" + department);

}

}

class Program

{

static void Main(string[] args)

{

Member m = new Member();

Manager ma = new Manager();

m = ma;

m.GetDetails();

m.DisplayDetails();

m.printSalary();

Employee e = new Employee();

m = e;

m.GetDetails();

m.DisplayDetails();

m.printSalary();

}

}

}