**//Interface**:

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace ConsoleApplication39

{

interface subject

{

int getMPhysics(int p);

int getMChemistry(int c);

}

interface sports

{

int getMKabaddi(int k);

int getMCricket(int r);

}

class result : subject, sports

{

int total;

public int getMPhysics(int p)

{

return p;

}

public int getMChemistry(int c)

{

return c;

}

public int getMKabaddi(int p)

{

return p;

}

public int getMCricket(int r)

{

return r;

}

public int cal()

{

total = getMPhysics(50) + getMChemistry(60) + getMKabaddi(70) + getMCricket(80);

int percent = total / 4;

return percent;

}

}

class Program

{

static void Main(string[] args)

{

result r = new result();

Console.WriteLine("Marks in Physics: " + r.getMPhysics(50));

Console.WriteLine("Marks in Chemistry: " + r.getMChemistry(60));

Console.WriteLine("Marks in Kabaddi: " + r.getMKabaddi(70));

Console.WriteLine("Marks in Cricket: " + r.getMCricket(80));

Console.WriteLine("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

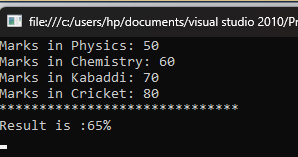
Console.WriteLine("Result is :" + r.cal() + "%");

Console.Read();

}

}

}



//Hierarchical inheritance:

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace ConsoleApplication13

{

class Person // Base Class

{

public string name;

public int aadhar\_id;

public int age;

public Person(int aadhar\_id, int age, string name)

{

this.aadhar\_id = aadhar\_id;

this.name = name;

this.age = age;

}

}

// Derived Class

class Teacher : Person

{

public int teacher\_salary;

public Teacher(int aadhar\_id, int salary,string name, int age) : base(aadhar\_id, age, name)

{

teacher\_salary = salary;

}

public void TeacherDetails()

{

Console.WriteLine("Teacher's ID: " + aadhar\_id);

Console.WriteLine("Teacher's Name: " + name);

Console.WriteLine("Teacher's Salary: " + teacher\_salary);

Console.WriteLine("Teacher's Age: " + age);

}

}

// Derived Class

class Doctor : Person

{

public int doctor\_fees;

public Doctor(int aadhar\_id, int fees, string name, int age) : base(aadhar\_id, age, name)

{

doctor\_fees = fees;

}

public void DoctorDetails()

{

Console.WriteLine("Doctor's ID: " + aadhar\_id);

Console.WriteLine("Doctor's Name: " + name);

Console.WriteLine("Doctor's Fees: " + doctor\_fees);

Console.WriteLine("Doctor's Age: " + age);

}

}

class prgram

{

static public void Main()

{

// Creating objects

Teacher t = new Teacher(25054, 50000, "Sanjay", 28);

Doctor d = new Doctor(25045, 750, "Rohit", 32);

t.TeacherDetails();

Console.WriteLine( "-----------------------------------");

d.DoctorDetails();

Console.Read();

}

}

}

