package inheritance;

import java.util.Scanner;

//parent class

class Student

{

int sid;

String name;

String std;

String school\_name;

public void showStudents()

{

System.out.println(sid+" "+name+" "+std+" "+school\_name);

}

Student(String school\_name)

{

this.school\_name=school\_name;

}

}

//introduce child class

class Teacher extends Student

{

Teacher()

{

super("Oxford");

System.out.println("Student Result Apps");

System.out.println("=====================");

}

String sub1,sub2,sub3;

float marks1,marks2,marks3;

float total\_marks;

char grade;

Scanner sc = new Scanner(System.in);

public void addSub()

{

System.out.println("Enter First Sub:");

sub1=sc.next();

System.out.println("Enter Second Sub:");

sub2=sc.next();

System.out.println("Enter Third Sub:");

sub3=sc.next();

}

public void addMarks()

{

System.out.println("Enter "+sub1+ " Marks1:");

marks1=sc.nextFloat();

System.out.println("Enter "+sub2+ " Marks1:");

marks2=sc.nextFloat();

System.out.println("Enter "+sub3+ " Marks1:");

marks3=sc.nextFloat();

total\_marks=marks1+marks2+marks3;

}

public char showGrade()

{

if(total\_marks>=250)

{

grade='A';

}

else if(total\_marks>=200)

{

grade='B';

}

else if(total\_marks>=170)

{

grade='C';

}

return grade;

}

public void showResults()

{

super.sid=10012;

super.name="Jerome";

super.std="12th";

super.showStudents();

System.out.println("Total Marks :"+total\_marks);

}

}

public class SingleLevel {

public static void main(String[] args) {

// TODO Auto-generated method stub

Teacher obj = new Teacher();

obj.addSub();

obj.addMarks();

obj.showResults();

System.out.println("Student Grade is: "+obj.showGrade());

}

}

Kunal, 7:24 PM

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Student(String school\_name)

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marks2=sc.nextFloat();

System.out.println("Enter "+sub3+ " Marks1:");

marks3=sc.nextFloat();

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grade='C';

}

return grade;

}

public void showResults()

{

super.sid=10012;

super.name="Jerome";

super.std="12th";

super.showStudents();

System.out.println("Total Marks :"+total\_marks);

}

}

//multilevel inheritance

class Principal extends Teacher

{

String results;

public String dispResults()

{

if(grade=='A')

{

results="Excellent";

}

else if(grade=='B')

{

results="Good";

}

else

{

results="Average";

}

return results;

}

}

public class SingleLevel {

public static void main(String[] args) {

// TODO Auto-generated method stub

Principal obj = new Principal();

obj.addSub();

obj.addMarks();

obj.showResults();

System.out.println("Student Grade and Results: "+obj.showGrade()+" "+obj.dispResults());

}

}