Assignment Problem 1

PGDCA II Semester PS02CDC33: Object Technology Prof. Priti Srinivas Sajja

Student Mark-sheet

1. Define a class of **Student with structure as follows:**

```
int no;
String name;
int m1; int m2; int m3; int m4; int m5; int m6;
```

- **2.** Define at least one **constructor** having above all parameters of the Student class.
- **3.** Also define a method **void print()**, which prints students mark sheet with total and percentages.
- **4.** Define and initialize an **array of DCA** students as follows in the main method.

```
Student[] DCA = new Student[5];

DCA[0] = new Student(1001, "Sita", 70,80,80,70,70,80);

DCA[1] = new Student(1002, "Gita", 70,70,70,70,70,70,70);

DCA[2] = new Student(1003, "Rita", 50,50,50,50,50,50);

DCA[3] = new Student(1004, "Mita", 80,80,80,80,80,80);

DCA[4] = new Student(1005, "Nita", 30,30,30,30,30,30);
```

5. Develop a **for loop** which prints mark sheets of the above five students from the Studentnn class. Use format as shown below.

```
G H Patel P G Dept of Computer Science And Technology
No: 1001
Name: Sita
D31 D32 D33 D34 D35 D35
70 80 80 70 70 80
Total: 450
Percentages: 75.0
Result: Pass
```

```
Solution
package student;
public class Student {
        int no; String name;
        int m1; int m2; int m3; int m4; int m5; int m6;
Student()
{ no=0;
 name=" ":
 m1=m2=m3=m4=m5=m6=0; } // default constructor
Student(int no, String name, int m1, int m2, int m3, int m4, int m5, int m6)
{ this.no=no; this.name=name;
 this.m1=m1; this.m2=m2;
                              this.m3=m3; this.m4=m4; this.m5=m5; this.m6=m6;
} // parameterized constructor
void print ()
{System.out.println ("G H Patel P G Dept of Computer Science And Technology ");
System.out.println ("-----");
System.out.println("No: " + no);
System.out.println("Name: " + name);
System.out.println ("-----");
System.out.println("D31" + "\t" + "D32" + "\t" + "D33" + "\t" + "D34" + "\t" + "D35" + "\t" + "D35" );
System.out.print (m1 + "\t" + m2 + "\t" + m3 + "\t" + m4 + "\t" + m5 + "\t" + m6 + "\n");
System.out.println ("-----");
int total= m1+m2+m3+m4+m5+m6;
double per= total/6;
System.out.println("Total: " +total);
System.out.println("Percentages: " + per);
if (per>=40) System.out.println ("Result: Pass"); else System.out.println ("Result: Fail");
System.out.println ("-----");
System.out.println("\n \n");
public static void main(String[] args) {
        Student[] DCA = new Student[5];
        DCA[0] = new Student(1001, "Sita", 70,80,80,70,70,80);
        DCA[1] = new Student(1002, "Gita", 70,70,70,70,70,70);
        DCA[2] = new Student(1003, "Rita", 50,50,50,50,50,50);
        DCA[3] = new Student(1004, "Mita", 80,80,80,80,80,80);
        DCA[4] = new Student(1005, "Nita", 30,30,30,30,30,30);
        for (int i=0; i<5; i++)
            DCA[i].print();
 } // end of main
}//end of class
```