

IT Workshop -II (CS251)

Lab Assignment : 2

Q-1) Create a class for student records with the following class diagram :

class <u>StudentRecord</u>	
<ul style="list-style-type: none">• int rollNo• String name• String department	
<ul style="list-style-type: none">+ StudentRecord()+ StudentRecord(int rollNo)+ StudentRecord(int rollNo, String name)+ StudentRecord(int rollNo, String name, String department)+ StudentRecord(StudentRecord sR)+ void displayRecord()	

- The default values are: rollNo = -1, name = "000" and department = "000"
- All constructors should initialize the passed parameter to appropriate member variable and use default values for the rest.
- The method displayRecord() of an object should display full student record of the object
- Create objects (total 5 objects) of class StudentRecord in main method of another class using the given five different constructors respectively and then display the record for each of them.

class <u>Operation</u>	
<ul style="list-style-type: none">• int operand1• String operator• int operand2• double result	
<ul style="list-style-type: none">+ Operation(int,String,int)+ void calculateValue()+ void displayResult ()	

Q-2) Write a java program which take following arguments (in serial order):

- I. int operand1
- II. String operator (can be "+" or "-" or "*" or "/")
- III. int operand2

Do the following operations in main method of some other class:

- I. Create object of class **Operation** in main method of another class by taking input from keyboard and passing them to the constructor of class Operation with the above given 3 arguments.
- II. Call calculateValue() of that object, which performs the operation according to the operator type ("+" or "-" or "*" or "/") and stores result.
- III. Call displayResult() of that object.

Note: To compare two strings (say str1 and str2) use equals method with following syntax:

```
If(str1.equals(str2)){
```

```
}else{
```

```
}
```