CSL304-IOOM-Object Oriented Programming

Lab Assignment-6 Batch R1 & R2

(Evaluation Wednesday, October 31, 2018 at 2:00 pm)

1) Write a java program that emulates the DOS COPY command. That is, it should copy the contents of a text file (such as any. CPP file) to another file. Invoke the program with two command-line arguments—the source file and the destination file—like this: C>ocopy srcfile.cpp destfile.cpp

2) Write a Java program to demonstrate the use of reflection and get information of class, methods and constructors. Also create a class

```
class Employee
{
 private:
        string firstName;
         string lastName;
         string socialSecurityNumber;
public:
         Employee(  string &,  string &,  string & );
         void setFirstName(  string & ); // set first name
          string getFirstName() ; // return first name
         void setLastName(  string & ); // set last name
          string getLastName() ; // return last name
          void setSocialSecurityNumber(  string & ); // set SSN
         string getSocialSecurityNumber() ; // return SSN
        double salary() = 0; //
         void print(); // . It prints Employee details

}; // end class Employee
```

Also, create Class test_inheritance extends Employee. Its public member functions include a constructor that takes a first name, a last name, a social security number. Use reflection to get superclass of the class_inheritance.

CSL304-IOOM-Object Oriented Programming

Lab Assignment-6 Batch R2 & R4

(Evaluation Wednesday, November 2, 2018 at 2:00 pm)

1) Write a java program to sort a text file containing some records in a multiple columns (Student, Marks). Your program should take one text file containing some records as input, should sort the records on a particular column and write the sorted records in another text file.

Input text file: Suresh 56	Output file: Vikas 92
Mahesh 89	Mahesh 89
Shyam 81	Shloka 84
Vikas 92	Shyam 81
Shloka 84	Abhi 71
Nalini 62	Bhavani 68
Abhi 71	Nalini 62
Bhavani 68	Suresh 56

2) Write a Java program to demonstrate the use of reflection and get information of class, methods, constructors and fields.

```
public class GreenTea {
  private double caffeine;
  private String blend;
  public double totalCaffeine;
  public GreenTea(int code) {
   if(code == 25) {
    blend = "Dragonwell"
    caffeine = 42.58;
   }
   if(code == 30) {
    blend = "Zen";
    caffeine = 29.5;
   }
  }
  public double getCaffeine() {
   return caffeine;
  }
  public String getClend() {
```

```
  return blend;
 }
 public void setCaffeine(double caffeine) {
  this.caffeine = caffeine;
 }
 public String setBlend(String blend) {
  this.blend = blend;
 }
 public void calcValues(double oz) {
  totalCaffeine = oz * caffeine;
  System.out.println("Total caffeine = " + totalCaffeine);
 }
}
```

The information about the class must be specific. It gives the output as “GreenTea”.