Lab 4 -Answers

```
1.)
package Student;
public class Student {
private int StuId;
private static int max=100;
private String name;
private String mobile;
private String degree;
public int getStuId() {
      return StuId;
public void setStuId(int stuId) {
      StuId = stuId;
}
public String getName() {
      return name;
}
public void setName(String name) {
      this.name = name;
}
public String getMoblile() {
      return mobile;
public void setMoblile(String moblile) {
      this.mobile = moblile;
}
public String getDegree() {
      return degree;
}
public void setDegree(String degree) {
      this.degree = degree;
public Student(String name, String degree, String mobile){
      this.StuId=getNextStudentID();
      this.mobile=mobile;
      this.name=name;
      this.degree=degree;
}
public void Print(){
      System.out.println("ID:" +this.StuId);
      System.out.println("Name:" +this.name);
      System.out.println("Mobile:" +this.mobile);
      System.out.println("Degree:" +this.degree);
}
private static int getNextStudentID(){
      max=max-1;
      return max;
}
}
```

```
package Student;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.List;
public class StudentApp {
       public static void main(String[] args) {
              List<Student>studentList=new ArrayList<Student>();
              studentList.add(new Student("Amila", "SE", "0774376478"));
              studentList.add(new Student("Kamal","IT","0774376208"));
studentList.add(new Student("Piyal","IT","0775376445"));
               studentList.add(new Student("Suneera", "SE", "0779376477"));
              studentList.add(new Student("Ruwan", "BS", "0774372548"));
              for(int i=0;i<studentList.size();i++){</pre>
                                                          *************************
                      System.out.println("********
                      Student st=studentList.get(i);
                      st.Print();
                      System.out.println("*****************************);
              }
       }
}
```

******** ID:99 Name:Amila Mobile:0774376478 Degree:SE *************** ******* ID:98 Name:Kamal Mobile:0774376208 Degree:IT ********* ******** ID:97 Name:Piyal Mobile:0775376445 Degree:IT *************** ********* ID:96 Name:Suneera Mobile:0779376477 Degree:SE **************** ******** ID:95 Name:Ruwan Mobile:0774372548 Degree:BS **************

```
2.)
package Feet;
class Feet {
      private int feet;
    private int inches;
   public Feet(int feet, int inches){
        this.feet=feet;
        this.inches=inches;
}
public Feet(Feet len) {
      this.feet=len.feet;
    this.inches=len.inches;
}
public void add (Feet f1,Feet f2){
  this.inches=f1.inches + f2.inches;
 this.feet=f1.feet+f2.feet;
 if(this.inches >=12){
      this.feet++;
      this.inches=this.inches-12;
    }
}
public void add(Feet f1){
     this.add(this, f1);
}
public static Feet add(Feet f1, Feet f2, Feet f3){
      Feet newlen=new Feet(f1);
      newlen.add(f1, f2);
      newlen.add(f3);
      return newlen;
}
public void print(){
     System.out.print(this.feet + "'" + this.inches + " \" ");
}
public void println(){
 this.print();
 System.out.println ();
public void print (String msg){
      System.out.print (msg+ " ");
      this.print();
public static void print(Feet f1){
       f1.print();
    }
}
```

```
public class Main {
    public static void main(String args[]){
        Feet f1=new Feet(2,2);
        f1.println();
        Feet f2=new Feet(5,6);
        Feet f3=new Feet(10,11);
        Feet f4=new Feet(2,10);
        Feet f5=new Feet(f1);
        f4.print("Feet F4");
        Feet f6;
        f6=Feet.add(f2,f3,f4);
        f6.println();
     }
}
```