2nd program)

```
package labProgram;
import java.util.*;
class employee{
  String name;
  int eid;
  String department;
  int age;
  String designation;
  int salary;
  void input(){
  Scanner sc=new Scanner(System.in);
  System.out.println("enter the name ");
  this.name=sc.nextLine();
  System.out.println("enter employee id");
  this.eid=sc.nextInt();
  sc.nextLine();
  System.out.println("enter the department");
  this.department=sc.nextLine();
  System.out.println("enter the age");
  this.age=sc.nextInt();
  sc.nextLine();
```

```
System.out.println("enter the designation");
  this.designation=sc.nextLine();
  System.out.println("enter the salary");
  this.salary=sc.nextInt();
  }
  void display(){
    System.out.println("Name: "+this.name+" Employee id: "+this.eid+" Department:
"+this.department+" Age: "+this.age+" Designation: "+this.designation+" Salary: "+ this.salary);
  }
}
public class program2 {
  public static void main(String[] args) {
    Scanner s=new Scanner(System.in);
    System.out.println("enter the no. of employee");
    int n=s.nextInt();
    employee [] employees=new employee[n];
    for(int i=0;i<n;i++){
      employees[i]=new employee();
      System.out.println("enter the details of employee "+(i+1));
```

```
employees[i].input();
}
System.out.println("-----");
for(int i=0;i<n;i++){
 System.out.println("the details of employee "+(i+1));
 employees[i].display();
}
System.out.println("-----");
System.out.println("enter the department to calculate all the salary of the employee");
s.nextLine();
String dept=s.nextLine();
int totalSalary=0;
for(int i=0;i<n;i++){
 if(dept.equalsIgnoreCase(employees[i].department)){
   totalSalary=totalSalary+employees[i].salary;
 }
}
System.out.println(totalSalary);
System.out.println("enter the department to find details of highest paid employee");
String dept1=s.nextLine();
```

```
int max=Integer.MIN_VALUE;
    int j=-1;
    for(int i=0;i<n;i++){
      if (dept 1. equals Ignore Case (employees [i]. department)) \{\\
        if(employees[i].salary>max){
         max=employees[i].salary;
        j=i;
        }
      }
    }
    employees[j].display();
}
}
3<sup>rd</sup> program)
package labProgram;
import java.util.*;
class complex{
  int real,img;
  complex(int real,int img){
    this.real=real;
    this.img=img;
  }
```

```
void add(complex c1,complex c2){
    System.out.println("Addition: "+(c1.real+c2.real)+"+"+(c1.img+c2.img)+"i");
 }
  void subtraction(complex c1,complex c2){
    System.out.println("Addition: "+(c1.real-c2.real)+"+"+(c1.img-c2.img)+"i");
 }
  void compare(complex c1,complex c2){
    if(c1.real!=c2.real) {
      System.out.println(false);
    }
   else if(c1.img!=c2.img){
    System.out.println(false);
    }
    else{
   System.out.println(true);
    }
 }
public class program3 {
  public static void main(String[] args) {
    Scanner sc=new Scanner(System.in);
    System.out.println("enter the real part of complex no. 1");
    int r1=sc.nextInt();
    System.out.println("enter the imaginary part of complex no. 1");
    int img1=sc.nextInt();
    complex c1=new complex(r1, img1);
    System.out.println("enter the real part of complex no. 2");
```

}

```
int r2=sc.nextInt();
System.out.println("enter the imaginary part of complex no. 2");
int img2=sc.nextInt();
complex c2=new complex(r2, img2);

c1.add(c1,c2);

c1.subtraction(c1,c2);

c1.compare(c1,c2);
}
```