Exercise – 3

a) Write a JAVA program to implement class mechanism. Create a class, methods and invoke them inside main method.

```java
import static java.lang.System.*;
class Student{
    int rno=420;
    String name="Raju";
    String _class="CSE-2";
    public void display() {
        out.println(name);
    out.println(rno);
    out.println(_class);
    }

}

public class Details {
    public static void main(String[] args) {
        Student   s=new Student();
    s.display();
    }
}
```

out put
Raju
420
CSE-2

b) Write a JAVA program implement method overloading.

```java
class Student{
  int sno;
  String sname;
  float fee;
  public void getData()
  {
  }
  public void getData(int sn,String snm,float f)
  {
      sno=sn;
      sname=snm;
      fee=f;
  }
  public void display()
  {
      System.out.println("Sno   : "+sno);
      System.out.println("Sname : "+sname);
      System.out.println("Fees  : "+fee);
  }
}
public class MethodOvl {
  public static void main(String[] args) {
      Student s=new Student();
  s.getData();
      s.display();
      Student s1=new Student();
      s1.getData(101,"babe",500);
      s1.display();
        }
}
```

out put

Sno : 0

Sname : null

Fees : 0.0

Sno : 101

Sname : babe

Fees : 500.0

c) Write a JAVA program to implement constructor.

```java
import java.util.Scanner;
class Sports_person
{
   int height=164;
    int weight=62;
    public Sports_person()
    {
     Scanner in=new Scanner(System.in);
     System.out.println("Enter Height?");
     height=in.nextInt();
     System.out.println("Enter Weight?");
     weight=in.nextInt();
     System.out.println("Height of the sports person is:"+height+"CM");
     System.out.println("Weight of the sports person is:"+weight+"KG");
    }
}
public class Olimpics {
  public static void main(String[] args) {
        Sports_person s=new Sports_person();
  }
}
```

out put

Enter Height?

62

Enter Weight?

59

Height of the sports person is:62CM

Weight of the sports person is:59KG

d)Write a JAVA program to implement constructor overloading.

```java
class Student{
    int sno;
    String sname;
    float fee;
    public Student()
    {
    }
    public Student(int sn,String snm,float f)
    {
        sno=sn;
        sname=snm;
        fee=f;
    }
    public void display()
    {
    System.out.println("Sno   : "+sno);
    System.out.println("Sname : "+sname);
    System.out.println("Fees  : "+fee);
    }
}
public class ConsOvl {
    public static void main(String[] args) {
        Student s=new Student();
```

```
        s.display();
        Student s1=new Student(100, "Raj",500);
        s1.display();
        new Student().display();
    }
}
```

out put

```
Sno   : 0
Sname : null
Fees  : 0.0
Sno   : 100
Sname : Raj
Fees  : 500.0
Sno   : 0
Sname : null
Fees  : 0.0
```