Assignment-4

Q.1.Build a class Student which contains details about the Student and compile and
run its instance.

```java
import java.util.Scanner;

class Student{
    String name;
    int id;
    int rank;

    public void printDetails(){
        System.out.println("Name : " + this.name);
        System.out.println("Id : " + this.id);
        System.out.println("Rank : " + this.rank);
    }

    public void fillDetails(String name, int id, int rank){
        this.name = name;
        this.id = id;
        this.rank = rank;
    }
}

public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        Student student1 = new Student();
        student1.printDetails();

        Student student2 = new Student();
        student2.fillDetails("Roy", 20, 25);
        student2.printDetails();

        Student student3 = new Student();
        student3.fillDetails(sc.nextLine(), sc.nextInt(), sc.nextInt());
        student3.printDetails();

    }
}
```

Q.2.Write a Vehicle class with overloaded methods that have a different number of
parameters. Demonstrate calling these overloaded methods with various numbers of
arguments.

```java
import java.util.Scanner;
import java.util.Vector;
```

```java
class Vehicle{
    public static void honk(){
        System.out.println("HONK");
    }

    public static void honk(int n){
        int i = 0;
        do{
            System.out.println("HONK");
            i++;
        }while (i < n);
    }
}

public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        Vehicle.honk();
        Vehicle.honk(2);

    }
}
```

Q.3.Create a class Employee with multiple overloaded methods that have different
parameter types (e.g.int, double, String). Demonstrate calling each overloaded
method with appropriate arguments.

```java
import java.util.Scanner;
import java.util.Vector;

class Employee{
    String name;
    int rank;
    double marks;

    public void putDetails(String name){
        this.name = name;
    }

    public void putDetails(int rank){
        this.rank = rank;
    }

    public void putDetails(double marks){
        this.marks = marks;
    }

    public void showDetails(){
```

```java
        System.out.println("Name : " + name);
        System.out.println("Rank : " + rank);
        System.out.println("Marks : " + marks);
    }
}

public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        Employee employee1 = new Employee();
        employee1.putDetails("Ronny");
        employee1.putDetails(4);
        employee1.putDetails(80.9);
        employee1.showDetails();
    }
}
```