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

```
    package assignment4;
//    Build a class Student which contains details about the Student and
compile and run its instance.

public class Student {

        String name;
        int age;
        long mobileNo;



        public Student(){

        }


        public Student(String name, int age, long mobileNo){

          this.name = name;
          this.age = age;
          this.mobileNo = mobileNo;

        }


        void displayStudent(){
          System.out.println("Name: "+this.name);
          System.out.println("Age: "+this.age);
          System.out.println("Mobile No: "+this.mobileNo);

        }



        public static void main(String args[]){


         Student s1=new Student("RAM",25,1111110000);
         Student s2=new Student("SHAM",26,0000011112);


         s1.displayStudent();
         s2.displayStudent();
        }
       }
```

OUTPUT:

```
Name: RAM
Age: 25
Mobile No: 1111110000
Name: SHAM
Age: 26
Mobile No: 4682
```

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.

```
package assignment4;

public class Vehicle {

	void start()
	{
		System.out.println(" vehicle in motion");
	}

	public static void main(String[] args)
	{

		Car car = new Car();
		car.start();
		car.start(1);
	}
	}

class Car extends Vehicle
{
	void start(int count)
	{
		System.out.println("Starting " + count );
	}
}
```

Output:

```
vehicle in motion
Starting 1
```

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.

```
package assignment4;

import java.util.Scanner;

 class Programe{
      private String name;
      private int empid;
      private float salary;

      public void acceptRecord(  ) {
            Scanner sc = new Scanner(System.in);
            System.out.print("Name  :     ");
            this.name = sc.nextLine();
            System.out.print("Empid :     ");
            this.empid = sc.nextInt();
            System.out.print("Salary      :     ");
            this.salary = sc.nextFloat();
      }
      public void printRecord(  ) {
            System.out.println( this.name+"     "+this.empid+"
      "+this.salary);
      }
 }

public class Program {
      public static void main(String[] args) {
            Programe emp1 = new Programe();
            emp1.acceptRecord( );
            emp1.printRecord( );

            Programe emp2 = new Programe();
            emp2.acceptRecord( );
            emp2.printRecord( );

            Programe emp3 = new Programe();
            emp3.acceptRecord( );
            emp3.printRecord( );
      }
}
```

Output:

```
Name      :       ram
Empid     :      1
Salary    :      50000
```