Assignment 04 OOPJ

```
/*
1) Build a class Student which contains details about the Student and
compile and run its
instance.
*/
package com.question.first;

import java.util.Scanner;

class Student
{
	private String name;
	private int rn;
	private String shirtColor;

	public void acceptDetails()
	{
		try( Scanner sc = new Scanner(System.in))
		{
			 System.out.println("Enter name of the student: ");
			this.name = sc.nextLine();
			System.out.println("Enter roll number of the student: ");
			this.rn = sc.nextInt();
			sc.nextLine();
			System.out.println("Enter Shirt color of the student: ");
			this.shirtColor = sc.nextLine();

		}

	}

	public void displayDetails()
	{
		System.out.println("Name : "+this.name+"  Roll number :
"+this.rn+"  Shirt Color : "+this.shirtColor);
	}

}
public class Q1
{

	public static void main(String[] args)
	{
		Student s = new Student();

		s.acceptDetails();

		s.displayDetails();

	}

}
```

```
/* output:
    Enter name of the student:
     Hemant
     Enter roll number of the student:
     111
     Enter Shirt color of the student:
     Black
     Name : Hemant  Roll number : 111  Shirt Color : Black
*/


/*
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 com.question.second;

class Vehicle
{
     private String name;
     private String model;
     private int noOfWheels;
     private int noOfSeats;

     public void displayDetails(String name)
     {
          System.out.println("Name of Vehicle : "+name);
     }
     public void displayDetails(String name, String model)
     {
          System.out.println("Name of Vehicle : "+name+" , Model of
Vehicle : "+model);
     }
     public void displayDetails(String name, String model, int
noOfWheels )
     {
          System.out.println("Name of Vehicle : "+name+" , Model of
Vehicle : "+model+" , Number of Wheels : "+noOfWheels);
     }
     public void displayDetails(String name, int noOfWheels, String
model, int noOfSeats)
     {
          System.out.println("Name of Vehicle : "+name+" , Number of
Wheels : "+noOfWheels+" , Model of Vehicle : "+model+" , Number of seats
: "+noOfSeats);
     }


}
public class Q2
{
```

```
	public static void main(String[] args)
	{
		Vehicle v = new Vehicle();
		v.displayDetails("TATA MOTOR");
		v.displayDetails("Range Rover","MHVDGH");
		v.displayDetails("MARUTI SUZUKI","GVDFHY",4);
		v.displayDetails("SPLENDER",2,"MHCCGD",2);

	}

}
/*
Name of Vehicle : TATA MOTOR
Name of Vehicle : Range Rover , Model of Vehicle : MHVDGH
Name of Vehicle : MARUTI SUZUKI , Model of Vehicle : GVDFHY , Number of
Wheels : 4
Name of Vehicle : SPLENDER , Number of Wheels : 2 , Model of Vehicle :
MHCCGD , Number of seats : 2
*/


/*
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 com.question.third;

class Employee
{
	private String name;
	private String department;
	private int empid;
	private double salary;

	public void displayDetails(String name)
	{
		System.out.println("Name of Employee : "+name);
	}
	public void displayDetails(String name, int empid)
	{
		System.out.println("Name of Employee : "+name+" , Id of
Employee : "+empid);
	}
	public void displayDetails(String name, int empid, String
department )
	{
		System.out.println("Name of Employee : "+name+" , Id of
Employee : "+empid+" , Department of Employee : "+department);
	}
	public void displayDetails(String name, int empid, int salary,
String department )
	{
```

```
            System.out.println("Name of Employee : "+name+" , Id of
Employee : "+empid+" , Salary of Employee : "+salary+" , Department of
Employee : "+department);
      }
}
public class Q3
{

      public static void main(String[] args)
      {
            Employee emp = new Employee();
            emp.displayDetails("ABC");
            emp.displayDetails("XYZ", 11);
            emp.displayDetails("PQR", 22, "TECHNICAL");
            emp.displayDetails("DEF", 33, 80000, "TESTER");
      }

}
/*
Name of Employee : ABC
Name of Employee : XYZ , Id of Employee : 11
Name of Employee : PQR , Id of Employee : 22 , Department of Employee :
TECHNICAL
Name of Employee : DEF , Id of Employee : 33 , Salary of Employee :
80000 , Department of Employee : TESTER
*/
```