Experiment: 1

Aim: WAP using class Person to Display name and age.

Software: VS Code

Code:-

```java
import java.util.*;

class Person
{
    String Name;
    int age;
}

public class Programm_1
{
    public static void main(String[] args)
    {
        Scanner sc = new Scanner (System.in);

        Person P1 = new Person();

        System.out.print("Enter Your Name:-");
        P1.Name = sc.nextLine();

        System.out.print("Enter Your Age:-");
        P1.age = sc.nextInt();

        System.out.println("Personn's Details:-\nName:- " + P1.Name + "\nAge:- "
+ P1.age);
    }
}
```
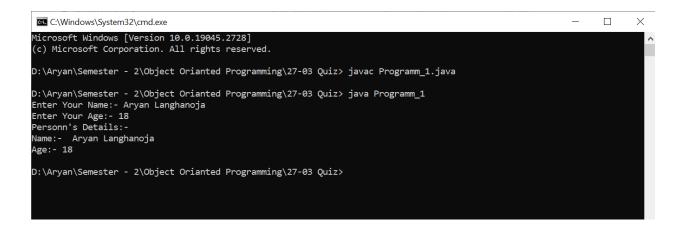
Student Name:- Aryan Dilipbhai Langhanoja
Roll_No_:- 92200133030

Output:

Experiment: 2

Aim: WAP using class Person to Display name and age with method.
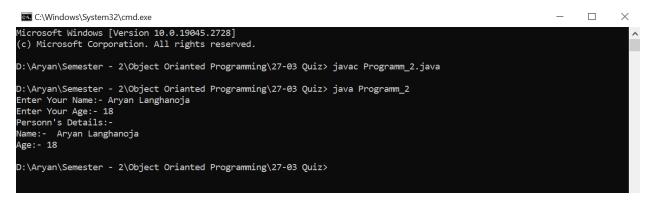
Software: VS Code

Code:

```java
import java.util.*;

class Person
{
    String Name;
    int age;

    public void Display(String Name,int age)
    {
        System.out.println("Personn's Details:-\nName:- " + Name + "\nAge:- " +
age);
    }
}

public class Programm_2
{
    public static void main(String[] args)
    {
        Scanner sc = new Scanner (System.in);

        Person P1 = new Person();

        System.out.print("Enter Your Name:-");
        P1.Name = sc.nextLine();

        System.out.print("Enter Your Age:-");
        P1.age = sc.nextInt();

        P1.Display(P1.Name, P1.age);
    }
}
```

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Output:

```
C:\Windows\System32\cmd.exe                                                    —    □    ✕

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D:\Aryan\Semester - 2\Object Orianted Programming\27-03 Quiz> javac Programm_2.java

D:\Aryan\Semester - 2\Object Orianted Programming\27-03 Quiz> java Programm_2
Enter Your Name:- Aryan Langhanoja
Enter Your Age:- 18
Personn's Details:-
Name:-  Aryan Langhanoja
Age:- 18

D:\Aryan\Semester - 2\Object Orianted Programming\27-03 Quiz>
```

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Experiment: 3

Aim: WAP using class Rectangle and calculate area of rectangle using method.
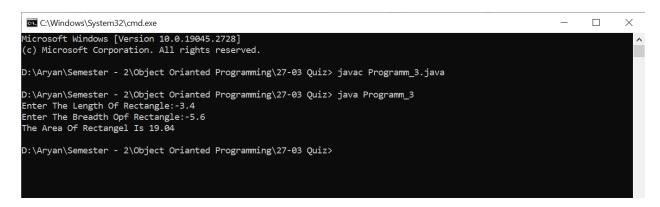
Software: VS Code

Code:-

```java
import java.util.*;

class Rectangle
{
    Double Length;
    Double Breadth;

    public void calArea(Double Length,Double Breadth)
    {
        System.out.println("The Area Of Rectangel Is " + (double)Length*Breadth);
    }

}

public class Programm_3
{
    public static void main(String[] args)
    {
        Scanner sc =new Scanner(System.in);

        Rectangle R1 = new Rectangle();

        System.out.print("Enter The Length Of Rectangle:-");
        R1.Length = sc.nextDouble();

        System.out.print("Enter The Breadth Opf Rectangle:-");
        R1.Breadth = sc.nextDouble();

        R1.calArea(R1.Length, R1.Breadth);
    }
}
```

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Output:

```
C:\Windows\System32\cmd.exe                                                  —    □    ×

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D:\Aryan\Semester - 2\Object Orianted Programming\27-03 Quiz> javac Programm_3.java

D:\Aryan\Semester - 2\Object Orianted Programming\27-03 Quiz> java Programm_3
Enter The Length Of Rectangle:-3.4
Enter The Breadth Opf Rectangle:-5.6
The Area Of Rectangel Is 19.04

D:\Aryan\Semester - 2\Object Orianted Programming\27-03 Quiz>
```

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Experiment: 4

Aim: WAP using class Rectangle and calculate area of rectangle using method.
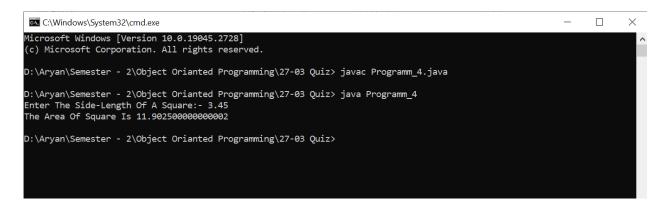
Software: VS Code

Code:-

```java
import java.util.*;

class Square
{
    double Length;

    public void calArea(Double Length)
    {
        System.out.println("The Area Of Square Is " + (double)Length*Length);
    }

}

public class Programm_4
{
    public static void main(String[] args)
    {
        Scanner sc =new Scanner(System.in);

        Square S1 = new Square();

        System.out.print("Enter The Side-Length Of A Square:-");
        S1.Length = sc.nextDouble();

        S1.calArea(S1.Length);
    }
}
```

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Output:

```
C:\Windows\System32\cmd.exe                                                    —    □    ×

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D:\Aryan\Semester - 2\Object Orianted Programming\27-03 Quiz> javac Programm_4.java

D:\Aryan\Semester - 2\Object Orianted Programming\27-03 Quiz> java Programm_4
Enter The Side-Length Of A Square:- 3.45
The Area Of Square Is 11.902500000000002

D:\Aryan\Semester - 2\Object Orianted Programming\27-03 Quiz>
```

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Experiment: 5

Aim: WAP using class Circle and calculate area of Circle using method.
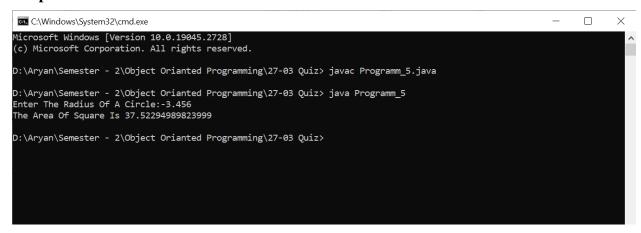
Software: VS Code

Code:

```java
import java.util.*;

class Circle
{
    long Radius;

    public void calArea(long Radius)
    {
        System.out.println("The Area Of Square Is " + 3.14159*Radius*Radius);
    }

}

public class Programm_5
{
    public static void main(String[] args)
    {
        Scanner sc =new Scanner(System.in);

        Circle C1 = new Circle();

        System.out.print("Enter The Radius Of A Circle:-");
        C1.Radius = sc.nextLong();

        C1.calArea(C1.Radius);
    }
}
```

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Roll_No_:- 92200133030

Output:

```
C:\Windows\System32\cmd.exe                                          —    □    ×

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D:\Aryan\Semester - 2\Object Orianted Programming\27-03 Quiz> javac Programm_5.java

D:\Aryan\Semester - 2\Object Orianted Programming\27-03 Quiz> java Programm_5
Enter The Radius Of A Circle:-3.456
The Area Of Square Is 37.52294989823999

D:\Aryan\Semester - 2\Object Orianted Programming\27-03 Quiz>
```

Experiment: 6

Aim: WAP using class Interest and calculate Simple Interest using method.

Software: VS Code

Code:-

```java
import java.util.*;

import javax.sql.rowset.spi.SyncResolver;

class Interest
{
    long Principle_Amount;
    int No_Of_Years;
    float Rate_of_Interest ;

    public void calInterest(long Principle_Amount,int No_Of_Years,float
Rate_of_Interest)
    {
        System.out.print("Simple Interest On Rs." + Principle_Amount+ "/- For " +
No_Of_Years + " Years At " + Rate_of_Interest + "% Is " +
(Principle_Amount*No_Of_Years*Rate_of_Interest)/100);
    }
}

public class Programm_6
{
    public static void main(String[] args)
    {
        Scanner sc =new Scanner(System.in) ;

        Interest I1 = new Interest();

        System.out.print("Enter The Principle Amount:-");
        I1.Principle_Amount = sc.nextLong();
```

```java
        System.out.print("Enter The Number Of Years:-");
        I1.No_Of_Years = sc.nextInt() ;

        System.out.print("Enter The Rate Of Interest:-");
        I1.Rate_of_Interest = sc.nextFloat() ;

        I1.calInterest(I1.Principle_Amount,I1.No_Of_Years,I1.Rate_of_Interest) ;

    }
}
```

Output:

C:\Windows\System32\cmd.exe   —   □   ✕

```
Microsoft Windows [Version 10.0.19045.2728]
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D:\Aryan\Semester - 2\Object Oriented Programming\27-03 Quiz> javac Programm_6.java

D:\Aryan\Semester - 2\Object Oriented Programming\27-03 Quiz> java Programm_6
Enter The Principle Amount:-100
Enter The Number Of Years:-3
Enter The Rate Of Interest:-8
Simple Interest On Rs.100/- For 3 Years At 8.0% Is 24.0
D:\Aryan\Semester - 2\Object Oriented Programming\27-03 Quiz>
```

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