

**Tutorial # 2 Data and Expressions using
Classes and Objects
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Question 1:

```
2.8284271247461903
1.099511627776E12
3.4657359027997265
2.0794415416798357
7.38905609893065
PS C:\Users\anasj\OneDrive\Desktop\js\tutorial2>
```

Question 2:

```
import java.text.DecimalFormat;
import java.util.Scanner;

public class tut2 {
    public static void main(String [] args) {

        DecimalFormat df = new DecimalFormat("0.00");
        Scanner MyInp = new Scanner(System.in);

        System.out.println("Please Enter Radius of Circle: ");
        Double Radius = MyInp.nextDouble();
        Double Volume = (4 * Math.PI * Math.pow(Radius, 3)/3);
        Double SurfaceArea = (4 * Math.PI * Math.pow(Radius, 2));
        MyInp.close();

        System.out.println("Surface Area: " + df.format(SurfaceArea));
        System.out.println("Volume: " + df.format(Volume));

    }
}
```

```
Please Enter Radius of Circle:
20
Surface Area: 5026.55
Volume: 33510.32
PS C:\Users\anasj\OneDrive\Desktop\js\tutorial2>
```

Question 3:

```
import java.util.Random;

public class tut2_3 {
    public static void main(String [] args) {
        int num1;
        Random generator = new Random();
        System.out.println("Random Numbers: ");

        for(int i = 0; i < 7; i++){
            num1 = generator.nextInt(25);
            System.out.println(num1);
        }
    }
}
```

```
10
20
8
23
6
20
3
PS C:\Users\anasj\OneDrive\Desktop\js\tutorial2>
```