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2018604556

① 

```
import java.util.Scanner;

public class AddTwoNumbers2 {

    public static void main (String[] args) {

        int num1, num2, num3 sum;

        Scanner sc = new Scanner (System.in);

        System.out.println ("enter 1st number");

        num1 = sc.nextInt();

        System.out.println ("enter 2nd number");

        num2 = sc.nextInt();

        sc.close();

        sum = num1 + num2;

        System.out.println ("sum : " + sum);

    }

}
```

o/p

enter 1st number 5  
enter 2nd number 2.

Sum : 7

```
② import java.util.Scanner;
```

```
public class conversion {
```

```
    public static void main (String[] args)
```

```
    {
```

```
        double miles;
```

```
        Scanner sc = new Scanner (System.in);
```

```
        System.out.println ("Please enter mile");
```

```
        miles = sc.nextDouble();
```

```
        double Kilometer = miles * 1.6;
```

```
        System.out.println ("Kilometers + Kilometers")
```

```
    }
```

```
}
```

%p

please enter mile . 25

40.0 Kilometers

```

③ import java.util.Scanner;

public class GraduityRate
{
    public static void main (String[] args)
    {
        Scanner sc = new Scanner (System.in);
        System.out.print("enter the subtotal and
        gratuity rate.");
        double subtotal = sc.nextDouble();
        double gratuityRate = sc.nextDouble();
        double gratuity = subtotal * (gratuityRate/100);
        double total = subtotal + gratuity;
        System.out.println("The gratuity is $" +
        gratuity + " and total is $" + total);
    }
}

```

%p enter subtotal and Gratuity Rate 10, 15  
 The gratuity is \$ 1.5 and total is \$ 11.5



```
4) import java.util.Scanner;
```

```
public class Acceleration
```

```
{  
    public static void main (String[] args)
```

```
{  
    Scanner sc = new Scanner (System.in);
```

```
    System.out.println ("enter v0, v1 and t:");
```

```
    double v0 = sc.nextDouble();
```

```
    double v1 = sc.nextDouble();
```

```
    double t = input.nextDouble();
```

```
    double a = (v1 - v0) / t;
```

```
    System.out.println ("The average : " + a);  
    acceleration
```

3 3

O/P

enter v<sub>0</sub>, v<sub>1</sub> and t    5, 10, 5

The average acceleration    1 m/s<sup>2</sup>.

```

9) import java.util.Scanner;

public class Triangle {
    public static void main (String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("enter length of side");

        double l = sc.nextDouble();
        double a = (Math.sqrt(3)/4) * (side * side);
        double v = a * l;
    }
}

```

```

    System.out.println("The Area:" + a +
        " Volume:" + v);
}

```

o/p

enter length of sides 2

The Area : 1.73 Volume : 3.4641

⑥ import java.util.Scanner;

public class Distance

{  
 public static void main (String[] args)

{

Scanner sc = new Scanner (System.in);

System.out.print ("enter x<sub>1</sub> and x<sub>2</sub> ");

double x<sub>1</sub> = sc.nextDouble();

double x<sub>2</sub> = sc.nextDouble();

System.out.print ("enter y<sub>1</sub> and y<sub>2</sub> ");

double y<sub>1</sub> = sc.nextDouble();

double y<sub>2</sub> = sc.nextDouble();

double D = Math.pow(x<sub>2</sub> - x<sub>1</sub>, 2) + Math.pow(y<sub>2</sub> - y<sub>1</sub>, 2);

double SquareRoot = Math.pow(D, 0.5);

System.out.println ("The distance between two point is " + SquareRoot);

}