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## **Lab 03**

### **Introduction to Scannar Class**

#### **Objectives:**

In this lab,

- I will learn how find square of any number.
- I will learn how we convert Fahrenheit into degree Celsius.

#### **Task-01:**

Write a program which convert Fahrenheit into degree Celsius where

$$C=5/9(F-32).$$

#### **Code:**

```
import java.util.Scanner;

public class Temperature {

    public static void main(String[] args){

        Scanner scan= new Scanner(System.in);

        System.out.println("Enter temperature in Fahrenheit:");

        float F=scan.nextInt();

        float C=(5*(F-32))/9;

        System.out.println(F+" Degree Fahrenheit is =" +C+" Degree Celsius."); } }
```

#### **Output:**

```
> run Temperature
Enter temperature in Fahrenheit:
140
140.0 Degree Fahrenheit is =60.0 Degree Celsius.
> |
```

## **Task 2:**

Ask a user to enter any number. Store the number in a variable and display the square of that number.

### **Code:**

```
import java.util.Scanner;

public class Square {

    public static void main(String[] args){

        int a;

        Scanner scan=new Scanner(System.in);

        System.out.print("Enter the number : ");

        a= scan.nextInt();

        int b=(a*a);

        System.out.print("The square of ");

        System.out.print(a);

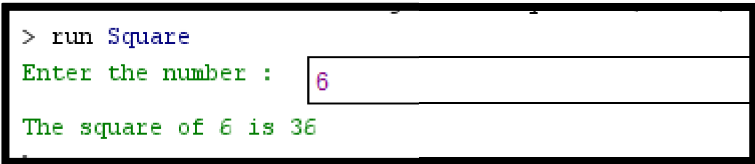
        System.out.print(" is ");

        System.out.println(b);

    }

}
```

### **Output:**



```
> run Square
Enter the number : 6
The square of 6 is 36
```

### **Task 3:**

Write a program which find slope from linear equation of line.

### **Code:**

```
import java.util.Scanner;

public class Slope {

    public static void main(String[] args){

        double a;

        double b;

        double m;

        Scanner scan=new Scanner(System.in);

        System.out.print("Enter the value of a: ");

        a= scan.nextDouble();

        System.out.print("Enter the value of b: ");

        b= scan.nextDouble();

        m=b/a;

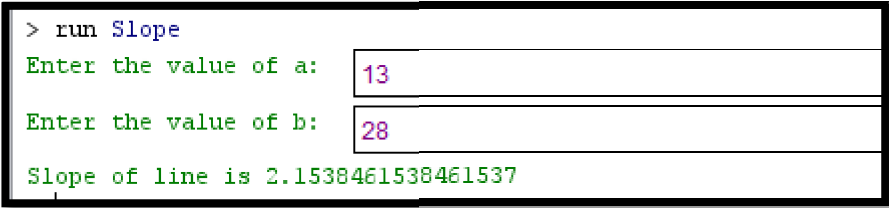
        System.out.print("Slope of line is ");

        System.out.println(m);

    }

}
```

### **Output:**



```
> run Slope
Enter the value of a: 13
Enter the value of b: 28
Slope of line is 2.1538461538461537
```

### **Task 4:**

Ask a user to enter two numbers find out whether bigger number is divisible by smaller number.

**Code:**

```
import java.util.Scanner;

public class Divide{

    public static void main(String[] args){

        int a;

        int b;

        int d;

        Scanner scan=new Scanner(System.in);

        System.out.print("Enter first number: ");

        a= scan.nextInt();

        System.out.print("Enter 2nd nmber: ");

        b= scan.nextInt();

        if (a>b){

            d=a%b;

        }

        else{

            d=b%a;

        }

        if (d==0){

            System.out.println("Bigger is divisible by smaller.");

        }

        else{

            System.out.println("Bigger is not divisible by smaller.");

        }

    }

}
```

```
    } }  
}
```

### **Output:**

```
> run Divide  
Enter first number: 45  
Enter 2nd number: 9  
Bigger is divisible by smaller.
```

### **Conclusion:**

In this lab, I learnt how we can take input from user as I use scanner class. I learnt how we perform different operation on input numbers. I also learnt how we can find larger or smaller number that taken from user. I also learnt how we can find square of any number. I also learnt how we can find slope of number that input from user.