

## Programs using accepting input through keyboard

Print the Fibonacci series upto the nth term taking the value of n from the user.

```
1 import java.util.Scanner;
2 class Fibonacci
3 {
4     public static void main(String args[])
5     {
6         Scanner sc = new Scanner(System.in);
7         System.out.print("Enter the number of terms to print: ");
8         int n = sc.nextInt();
9         int a = 0;
10        int b = 1;
11        for( int i = 0; i < n ; i++)
12        {
13            System.out.print(a + " ");
14            b = b + a;
15            a = b - a;
16        }
17    }
18 }
```

**Output :**

```
Enter the number of terms to print: 10
0 1 1 2 3 5 8 13 21 34
```

**WAP to reverse the given no.**

```
1 import java.util.Scanner;
2 class Reverse
3 {
4     public static void main(String args[])
5     {
6         Scanner sc = new Scanner(System.in);
7         System.out.print("Enter a number: ");
8         int num = sc.nextInt();
9         int rem, rev = 0;
10        while(num > 0)
11        {
12            rem = num%10;
13            rev = rev*10 + rem;
14            num = num/10;
15        }
16        System.out.println("The Reverse of the given number is: " + rev);
17    }
18 }
```

```

17     }
18 }

```

#### Output :

```

Enter a number: 1234
The Reverse of the given number is: 4321

```

#### WAP to calculate area & circumference of circle

```

1  import java.util.Scanner;
2  class AreaCircumference
3  {
4      public static void main(String args[])
5      {
6          Scanner sc = new Scanner(System.in);
7          System.out.print("Enter the radius of the Circle: ");
8          int radius = sc.nextInt();
9          double area = Math.PI*Math.pow(radius, 2);
10         double circumference = 2*Math.PI*radius;
11         System.out.println("The circumference is " + circumference +
12                             " and the Area is "+ area);
13     }
14 }

```

#### Output :

```

Enter the radius of the Circle: 4
The circumference is 25.132741228718345 and the Area is 50.26548245743669

```

#### WAP to swap given two strings

```

1  import java.util.Scanner;
2  class Swap
3  {
4      public static void main(String args[])
5      {
6          Scanner sc = new Scanner(System.in);
7          System.out.print("Enter a string: ");
8          String str1 = sc.nextLine();
9          System.out.print("Enter another string: ");
10         String str2 = sc.nextLine();
11         System.out.println("Strings Before Swapping: " + "str1: " +
12                             str1+ " str2: "+ str2);
13         String temp = str1;
14         str1 = str2;
15         str2 = temp;
16         //Write about copying references and making a deep copy

```

```

17         System.out.println("Strings After Swapping: " + "str1: " +
18                             str1+ " str2: "+ str2);
19     }
20 }

```

#### Output :

```

Enter a string: Hi
Enter another string: There
Strings Before Swapping: str1: Hi str2: There
Strings After Swapping: str1: There str2: Hi

```

#### WAP to convert temperature from Fahrenheit to Celsius

```

1  import java.util.Scanner;
2  class FarenheitToCelsius
3  {
4      public static int toCelsius(int fahrenheit)
5      {
6          return (fahrenheit - 32) * 5 / 9;
7      }
8      public static void main(String args[])
9      {
10         Scanner sc = new Scanner(System.in);
11         System.out.print("Enter the temperature in Farenheit: ");
12         int fahrenheit = sc.nextInt();
13         int celsius = toCelsius(fahrenheit);
14         System.out.print("The temperature in Celsius: " + celsius);
15     }
16 }

```

#### Output :

```

Enter the temperature in Farenheit: 32
The temperature in Celsius: 0

```

#### WAP to find a square, square root, and Cube of a given no. using abstraction

```

1  // WAP to find a square, square root, and Cube of a given no. using abstraction
2  import java.util.Scanner;
3  class MathOperations
4  {
5      public static double cube(double num)
6      {
7          return num*num*num;
8      }
9  }

```

```

10     public static double square(double num)
11     {
12         return num*num;
13     }
14
15     public static double sqrt(double num)
16     {
17         double i;
18         for(i = 0; !(i*i > num); i = i + 0.01);
19         return i;
20     }
21     public static void main(String args[])
22     {
23         int i = 10;
24         i = (int) cube(i);
25         int j = 100;
26         j = (int) sqrt(j);
27         System.out.println(j);
28         System.out.println(i);
29     }
30 }

```

### Output :

```

Enter a number: 100
Enter the operation: 1. Square 2. Square Root 3. Cube 4. Exit: 1
10000
Enter the operation: 1. Square 2. Square Root 3. Cube 4. Exit: 2
10
Enter the operation: 1. Square 2. Square Root 3. Cube 4. Exit: 3
1000000
Enter the operation: 1. Square 2. Square Root 3. Cube 4. Exit: 4

```