

**VIVEKANANDA COLLEGE
THAKURPUKUR
KOLKATA-700063**

NAAC ACCREDITED 'A' GRADE



Topic: Data types, Arrays, Operators, Flow control

Course Title: Internet and JAVA programming

Paper: SEC-2b

Unit:

Semester: 4

Name of the Teacher: Romela Dutta

Name of the Department: Electronics

SEC-2-B

Java programs

09.00

10.00

1. Swap two numbers using temporary variable.

11.00

```
public class SwapNumbers {
```

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

12.00

```
{ float first = 1.39, second = 2.52
```

01.00

```
System.out.println (" Before swap ");  
System.out.println (" first num = " + first);
```

02.00

```
System.out.println (" Second number = " + second);
```

```
float temporary = first;
```

03.00

```
first = second;
```

```
second = temporary;
```

04.00

```
System.out.println (" After swap ");  
System.out.println (" first num = " + first);  
System.out.println (" Second num = " + second);
```

Sunday 05

}

after running

Before swap
First num = 1.39
Second num = 2.52
After swap
First num = 2.52
second num = 1.39

Remember

2) Check whether an alphabet is vowel or consonant using if, else.

```
public class VowelConsonant {
    public static void main (String [] args) {
        char ch = 'i';
        if (ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u')
            System.out.println (ch + " is vowel");
        else
            System.out.println (ch + " is consonant");
    }
}
```

o/p → i is vowel.

3) Check if a number is positive or negative using else.

```
public class PositiveNegative {
    public static void main (String [] args) {
        double number = 12.3;
        if (number < 0.0)
            System.out.println (number + " is a negative number.");
        else if (number > 0.0)
            System.out.println (number + " is a positive number.");
        else
            System.out.println (number + " is 0.");
    }
}
```

```

    }
    System.out.println(number + " is 0.");
}
}

```

Op → 12.3 is a positive number.

4) Find factorial of a number using for loop.

```

public class factorial {
    public static void main (String [] args) {
        int num = 10;
        long factorial = 1;
        for (int i = 1; i <= num; ++i)
        {
            factorial * = i;
        }
        System.out.println("Factorial of %d = %d",
            num, factorial);
    }
}

```

Op → Factorial of 10 = 3628800.

5) Reverse a Number using while loop in Java.

```

public class ReverseNumber {
    public static void main (String [] args) {
        int num = 1234, reversed = 0;
        while (num != 0)
        {

```

10th Wk. 067-298

```
int digit = num % 10;
```

```
reversed = reversed * 10 + digit;
```

```
}
System.out.println("Reversed Number: " +
reversed);
}
```

o/p → 4321.

This keyword → In the body of a method definition, you may want to refer to the current object.