# **Assignment – Basics of Java Programming**

Object Orientated Programming through Java – CSE2016

## **Submitted by:**

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#### Program 1. Wap to print full pyramind of vowels.

#### Program:

```
public class Pyramid
{
   public static void main(String[] args) {
     int n = 5;
     char arr[] = new char[]{'a','e','i','o','u'};

     for(int i=0;i< arr.length;i++)
     {
        for(int j=0;j<n;j++)
            System.out.print(" ");
        n--;

        for(int j=0;j<=i;j++)
            System.out.print(arr[j]+" ");
        System.out.println();
     }
}</pre>
```

```
Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Prashant\Programming\Java\Java> javac Pyramid.java

PS C:\Prashant\Programming\Java\Java> java Pyramid

a

a e

a e i

a e i o

a e i o u

PS C:\Prashant\Programming\Java\Java> [
```

#### Program 2. Wap to reverse a number.

#### Program:

```
import java.util.Scanner;
public class Reversenumber {

public static void main(String[] args) {
    Scanner scan=new Scanner(System.in);
    System.out.println("Enter the number to reverse");
    int num=scan.nextInt();
    int rev=0;
    while (num!=0)
    {
        rev= rev*10+num%10;
        num=num/10;
     }
    System.out.println(rev);
    scan.close();
    }
}
```

```
PS C:\Prashant\Programming\Java\Java> java Reversenumber
Enter the number to reverse
453
354
PS C:\Prashant\Programming\Java\Java> [
```

# Program 3. Wap to remove all whitespace from a string.

### Program:

```
import java.util.Scanner;

public class Whitespace {

   public static void main(String[] args) {
        System.out.println("Enter the string to trim: ");
        Scanner scan= new Scanner(System.in);
        String value = scan.nextLine();

        String nospace= value.replace(" ","");
        System.out.println(nospace);
        scan.close();
    }
}
```

```
Enter the string to trim:

How are you doing

Howareyoudoing

PS C:\Prashant\Programming\Java\Java>
```

# Program 4. Wap to generate a random number in java.

### Program:

```
public class Randomnum {
   public static void main(String[] args) {
      System.out.println(1 + (9-1)*Math.random());
   }
}
```

```
PS C:\Prashant\Programming\Java\Java> javac Randomnum.java
PS C:\Prashant\Programming\Java\Java> java Randomnum
4.473642567868284
PS C:\Prashant\Programming\Java\Java> java Randomnum
2.2464753315290107
PS C:\Prashant\Programming\Java\Java> [
```

#### Program 5. Wap to print ASCII value in java.

Program:

```
public class Asciival {
    public static void main(String[] args) {
        String name = "wassup";
    System.out.println(name.codePointAt(0));
    System.out.println(name.codePointAt(1));
    System.out.println(name.codePointAt(2));
    System.out.println(name.codePointAt(3));
    System.out.println(name.codePointAt(4));
    System.out.println(name.codePointAt(5));
    }
}
```

```
PS C:\Prashant\Programming\Java\Java> javac Asciival.j
PS C:\Prashant\Programming\Java\Java> java Asciival
119
97
115
115
117
112
PS C:\Prashant\Programming\Java\Java> [
```

# Program 6. Wap to calculate total number of vowels in a string.

#### Program:

```
PS C:\Prashant\Programming\Java\Java> java Totalvowels

My name is prashant

my name is prashant

The total number of vowels in given strings are:

5

PS C:\Prashant\Programming\Java\Java>
```

# Program 7. Wap to swap 2 numbers without using 3<sup>rd</sup> variable.

#### Program:

```
import java.util.Scanner;

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

        Scanner scan = new Scanner(System.in);
        System.out.println("Enter two numbers: ");
        int a = scan.nextInt();
        int b = scan.nextInt();

        System.out.print(a+" ");
        System.out.println(b);
        a=a+b;
        b=a-b;
        a=a-b;
        System.out.print(a+" ");
        System.out.print(b);

        scan.close();
}
```

```
PS C:\Prashant\Programming\Java\Java> javac Swapnum.java
PS C:\Prashant\Programming\Java\Java> java Swapnum
Enter two numbers:
34 56
34 56
56 34
PS C:\Prashant\Programming\Java\Java>
```

# Program 8. Wap to check if a whether the integer list contain any odd number or not.

#### Program:

```
public class Oddint {
    public static void main(String[] args) {
        int ceven=0,codd=0;

        int[] num ={3,6,9,12,14,16,17,19,21,22,24,25,27,30,35,26,74,56,76,100};

        for(int i=0;i<num.length;i++) {
            if (num[i] % 2 == 0) {
                 ceven++;
            }
            System.out.println(ceven);
        }
}</pre>
```

```
PS C:\Prashant\Programming\Java\Java> java Oddint
12
PS C:\Prashant\Programming\Java\Java> [
```

# Program 9. Wap to change the format of the date from DD/MM/YYYY to MM/DD/YYYY.

#### Program:

```
import java.util.Scanner;
public class Dob {

public static void main(String[] args) {
    Scanner scan=new Scanner(System.in);
    String str = scan.nextLine();
    String temp=str;
    char arr[]=str.toCharArray();
    arr[0]=temp.charAt(3);
    arr[1]=temp.charAt(4);
    arr[3]=temp.charAt(0);
    arr[4]=temp.charAt(1);
    str=String.valueOf(arr);
    System.out.println(str);

    scan.close();
    }
}
```

```
PS C:\Prashant\Programming\Java\Java> java Dob
30/12/2002
12/30/2002
PS C:\Prashant\Programming\Java\Java>
```

# Program 10. Wap to find the quotient and remainder.

#### Program:

```
import java.util.Scanner;
public class Qremainder {

public static void main(String[] args) {
    Scanner scan = new Scanner(System.in);
    System.out.println("Enter first number");
    int num1 = scan.nextInt();
    System.out.println("Enter second number");
    int num2 = scan.nextInt();
    int q = num1 / num2;
    int r = num1 % num2;
    System.out.println("The quotiont is: " + q + "\n The remainder is
    : " + r);
    scan.close();
    }
}
```

```
PS C:\Prashant\Programming\Java\Java> java Qremainder
Enter first number
97
Enter second number
5
The quotiont is: 19
The remainder is: 2
PS C:\Prashant\Programming\Java\Java> [
```