



COMP 248 - Winter 2016

Tutorial 5

Question 1. What is the output of the following code?

```
public class q1 {  
    public static void main(String[] args) {  
        int count = 1;  
        while ( count <= 15 )  
        {  
            System.out.print( count + " " );  
            count = count + 3;  
        }  
        System.out.println( );  
    }  
}
```

Question 2. What is the output of the following code?

```
public class q1b {  
    public static void main(String[] args) {  
        int count = 10;  
        while ( count >= 6 )  
        {  
            System.out.print( count + " " );  
            count = count - 1;  
        }  
        System.out.println( );  
    }  
}
```

Question 3. What is the output of the following code?

```
public class q1d {
    public static void main(String[] args) {
        int i=5, count=0;
        while (i!=1)
        {
            System.out.println(count + " " + i);
            count++;
            if ((i%2) == 0)
                i/=2;
            else
                i= 3*i+1;
        } } }
```

Question 4. Having the following fragment of code:

```
for (age = low ; age <= up ; age += 5)
{
    if (age == 25)
        System.out.print("one");
    else if (age == 18 || age == 24)
    {
        k++;
        System.out.print("two");
    }
    else
        System.out.print(age);
    age = age + 5;
}
```

Re-write the above code by replacing the for loop by a do/while and if by a switch. Your new code should behave exactly as the above code in every possible situation.

Question 5. Write a Java code to print all even numbers from 10 to 100 using **do...while** loop.

Question 6. Write a Java code to sum all odd numbers from 15 to 100 using **for** loop then display the total sum.

Question 7. Write a Java code to print all odd numbers from 15 to 100 using **while loop**.