

Course Title: Programming I
Date: 12/03/2018
No. of Questions: 2 Questions
Time: 60 minutes
Using Calculator (No)

University of Palestine



Midterm Exam
2nd semester 2017/2018
Total Grade: 15

Instructor Name:

Student No.: _____

Student Name: _____

College Name: _____

Dep. / Specialist: _____

Using Dictionary (No)

First Question	No. Of Branches (3)	6 Marks
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What is the output of the following code?

Program 1:

```
int x = 9;
int y = 8;
int z = 7;

if (x > 9)
    if (y > 8)
        System.out.println("x > 9 and y > 8");
    else if (z >= 7)
        System.out.println("x <= 9 and z >= 7");
else
    System.out.println("x <= 9 and z < 7");
```

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Program 2:

```
class WelcomeJava
{
    public static void main(String args [ ])
    {
        int a = 5;

        System.out.println("Java"+" language");
        System.out.println("Java is fun");
        System.out.println("\n a is " + a );
        System.out.println(5+6 + "a");
        System.out.println( a +5+6);
    }
}
```

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Program 3:

What is output by the following program? Assume the user enters 12 for one execution of the program and 15 for a second execution. (3 marks)

```
import java.util.Scanner;
public class Compares
{
    public static void main( String args[] )
    {
        int integer;
        Scanner input = new Scanner( System.in );

        System.out.println( "\n\tEnter an integer:" );
        integer = input.nextInt();
        if ( ( integer % 4 ) == 0 )
            System.out.println( "Hello"+ "Welcome" );
        else
            System.out.println( "\t**Good Bye**\t" );
    }
}
```

Output: if 12

Output: if 15

Second Question **No. of Branches (3)** **9 Marks**

1. Find the errors and correct the code: (what is the type of each error (syntax or logical) (3 marks)

```
int q = 100
System.out.print( "q is );
if ( q = 100 );
System.out.print( " equal to 100" )
if ( q ! 100 )
System.out.print( " not equal to 100");
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2. Write a java program that prints the following statements. (3 marks)

" Hello Java"
We have fun!

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3. Write a complete java program that reads an integer value using a variable called radius and print out on the screen the area of the circle. The area = 3.14 * radius * radius.
You should inform the user to enter radius and then you should print on the screen the statement "The area = -----" instead of the blank your program will print the calculated area. (3 marks)

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Good Luck