

Computer Programming Quiz 1

Name:

Student Number:

[1]-[7] What is the output of the following code fragment?

[1]

```
int count = 0;
for( ; count < 9; ++count )
    System.out.print( count + " " );
```

Answer:

[2]

```
int j;
for ( j = 10; j > 5; j-- )
{
    System.out.print( j + " ");
}
```

Answer:

[3]

```
int count;
for(count = 0; count < 9; count++)
{
    System.out.print( count + " " );
    count++;
}
```

Answer:

[4]

```
System.out.println(7 / 3 * 1.2 + 3 / 2);
```

Answer:

[5]

```
System.out.println
(1 + 2 + "3" + 4 * 2 + 5);
```

Answer:

[6]

```
public static void main(String[] ar){
    int x = 10;
    int y = 20;
    y = modify(x, y);
    System.out.println(x + y);
}
public static int modify(int x, int y)
{
    x = y - 5;
    return x;
}
```

Answer:

[7]

```
public static void main(String[] ar)
{
    int x = modify(6 / 3.0);
    System.out.println(x);
}
public static int modify(int x)
{
    x += 5;
    return x;
}
```

Answer:

[8] Write a single line code that prints exactly same output as the fragment using another method in `System.out`.

```
System.out.println("CP quiz.");
```

Answer:

[9] Which of the following is NOT the name of a Java primitive data type?

- A. int
- B. char
- C. double
- D. String

Answer:

[10] A _____ is a program that converts commands in high level languages to lower level (e.g. machine) language instructions.

Answer:

[11] _____ is the set of legal structures and commands that can be used in a particular language.

Answer:

[12] A _____ specifies the definition of a particular kind of object.

Answer:

[13] A _____ method denotes the structure of a program and eliminates redundancy by code reuse. Writing it in Java is like adding a new command.

Answer:

[14] How many lines will be printed out when the following code runs?

```
public static void main(String[] ar)
{
    dothis();
    dothat();
    System.out.println("Main finished!");
}
public static void dothis()
{
    System.out.println("This finished!");
}
public static void dothat()
{
    System.out.print(" That finished!");
    dothis();
}
```

Answer:

[15] Which of the following is/are NOT included as a keyword in Java?

- A. boolean
- B. char
- C. dynamic
- D. for
- E. to

Answer:

[16]-[19] The following program asks the user for two integers, x and y, and then adds up all the integers (inclusive) between them. Fill in the blanks (using a single line of code).

(Code)

```
import java.util.Scanner;
Scanner scan = new Scanner(System.in);
int sum = [16]; // current sum
System.out.println("Enter start of range:");
int X = scan.nextInt();
System.out.println("Enter end of range:");
int Y = scan.nextInt();
int count = X;
for (; count [17] Y ;) {
    sum = [18] ;
    count = [19] ;
}
System.out.println("sum is:" + sum);
```

Answer for 16:

Answer for 17:

Answer for 18:

Answer for 19:

[20] In the lab session, we have discussed a problem about getting integer as an input. In the code below, the problem remains. Add a single line of code that solves this problem.

(Code)

```
import java.util.Scanner;
Scanner scan = new Scanner(System.in);
System.out.print("Enter your age: ");
int age = scan.nextInt();
[Answer for 20]
System.out.println("Is " + age + " correct? Enter your answer: ");
String ans = scan.nextLine();
System.out.println
("This is the end of this quiz. Bye!");
```

(Correct Output)

Enter your age: **29**

Is 29 correct? Enter your answer:

Yes

This is the end of this quiz. Bye!

(Incorrect Output)

Enter your age: **29**

Is 29 correct? Enter your answer:

This is the end of this quiz. Bye!

Answer: