STIA1113

Quiz 1

1. In the Java programming language, all source code is first written in plain text files ending with the extension.
ajavac
bjava
cclass
dtxt
Answer:bjava
2. The Java compiler generates
a. machine code
b. source code
c. byte code
d. HTML
Answer:c. byte code
3. JVM stands for
a. Java Variable Machine
b. Java Variable Method
c. Java Virtual Method
d. Java Virtual Machine
Answer:d. Java Virtual Machine
4. Write a Java program to print the sum of two numbers.
Answer:
package QUIZ;
<pre>import java.util.Scanner;</pre>
<pre>public class Quiz1Q4 {</pre>
<pre>public static void main(String[] args) {</pre>

```
Scanner scan = new Scanner (System.in);
    // TODO Auto-generated method stub
int x = 0;
int y = 0;
int sum = 0;
System.out.println("Please input integer x.");
x = scan.nextInt();
System.out.println("Please input integer y.");
y = scan.nextInt();
sum = x + y;
System.out.println("The sum is : " + sum);
}
```

5. Write the signature of the main method.

Answer: ___ public static void main(String[] args)_____

- **6.** These characters mark the beginning of a single-line comment.
- a. //
- b. /*
- c. */
- d. /**

Answer: ___a. //____

- 7. Which of the following are not valid assignment statements?
- a. sum = 9;
- b. 72 = cost;
- c. price = 129;
- d. ans = 'y';

Answer: ____b. 72 = cost;____

- 8. Which of the following are valid Java identifiers?
- a. myFirstProgram
- b. 1stProgram
- c. Program1

d. David'sFirstProgram
e. First Program
f. FIRST_PROGRAM
Answer:a, c, f
9. This is a named storage location in the computer's memory.
a. class
b. keyword
c. variable
d. operator
Answer:c. variable
10. This keyword is used to declare a named constant.
a. constant
b. namedConstant
c. final
d. concrete
Answer:c. final
11. Which of the following is not primitive data type?
a. String
b. double
c. boolean
d. int
Answer:a. String
12. Write Java statements that accomplish the following.
i. Declare int variables a and b.
ii. Initialize an int variable x to 10 and a char variable ch to 'y'.

iii. Declare and initialize a double variable payRate to 12.50.

Answer: i. int a, b;

iv. Declare a boolean variable ans and set the value of ans to true.

```
ii. int x = 10; char ch = 'y';
            iii. double payRate = 12.50;
            iv. boolean ans = true;
  13. Write the output of the following expressions.

 System.out.println(13 / 4);

 ii. System.out.println(2 + 12 / 4);
 iii. System.out.println(21 % 5);
 iv. System.out.println(3 - 5 % 7);
 v. System.out.println(17.0 / 4);
vi. System.out.println(8 - 5 * 2.0);
vii. System.out.println(14 + 5 \% 2 - 3);
viii. System.out.println(15.0 + 3 / 2);
  Answer: _____
  i. 3
  ii. 5
  iii. 1
  iv. -2
  v. 4.25
  vi. -2.0
  vii. 12
  viii. 16.0
  14. What is the value of each variable after the last statement executes?
  int a, b, c;
  double x, y;
  a = 17;
  b = 15;
  a = a + b / 4;
  c = a \% 3 + 4;
  x = 17 / 3 + 6.5;
  y = a / 4.0 + 15 \% 4 - 3.5;
```

```
Answer: _____

a = 20

b = 15

c = 6

x = 11.5

y = 4.5
```

15. Suppose x, y, and sum are int variables and z is a double variable. What value is assigned to sum variable after statement executes? Suppose x = 3, y = 5, and z = 14.1.

```
sum = x + y + (int) z;
Answer: ___ 22____
```

16. Write equivalent statements using combined assignment for the following, if possible.

```
    i. x = 2 * x;
    ii. x = x + y - 2;
    iii. sum = sum + num;
    iv. y = y / (x + 5);
    Answer:
    i. x *= 2;
    ii. x += y - 2;
    iii. sum += num;
```

iv. y /= (x+5)

17. Change the SampleProgram.java program so that it displays Programming is fun! instead of Hello World!.

```
class SampleProgram
{
    public static void main(String[] args)
    {
        System.out.println("Hello World!");
}
```

}

```
Answer: _____
class SampleProgram
{
    public static void main(String[] args)
    {
        System.out.println("Programming is fun!");
    }
}
```

18. The FixProgram.java has some errors. Fix the errors so that the program successfully compiles and runs.

```
class FixProgram
{
    public static void main(String[] args)
    {
        System.out.println('Hello World!')
    }
}
```

```
Answer: _____
class FixProgram
{
    public static void main(String[] args)
    {
        System.out.println("Hello World!");
    }
}
```