

Sample Questions

1. Write the values that will be printed to the console by the statements below. If the expression is incorrect, write “error”:

```
double a = 9.0, b = 2.0;  
int i = 9, j = 2;  
char c = 'a';
```

- a. `System.out.println(i % j);`

Answer: 1

- b. `System.out.println(i / j + a / b);`

Answer: 8.5

- c. `System.out.println(5 < i < 20);`

Answer: error

- d. `System.out.println((char) (c + 5));`

Answer: f

- e. `System.out.println(((i == 9) || c == 'b') && (j >= 2));`

Answer: true

2. Read the following programs, write the values that will be printed to the console:

Question a.

```
public class test1
{
    public static void main(String[] args)
    {
        int a = 1;
        int b = 2;
        int c = 3;

        if(a > 1)
        {
            if (b == 2 || c == 3)
            {
                System.out.println(a + b + c);
            }
            else
            {
                System.out.println(a - b - c);
            }
        }
        else
        {
            if (b > 1 && c > 2)
            {
                System.out.println(a - b + c);
            }
            else
            {
                System.out.println(a + b - c);
            }
        }
    }
}
```

Answer: 2

Question b.

```
public class test2
{
    public static void main(String[] args)
    {
        int i = 1;
        int sum = 0;

        while ( i < 10 )
        {
            i++;

            if (i % 2 == 0)
            {
                sum = sum + i;
            }
            else
            {
                continue;
            }
        }
        System.out.println(sum);
    }
}
```

Answer: 30

3. The following program reads three strings, and then prints out the longest one. Complete the following program:

```
import java.util.Scanner;

public class test2
{
    public static void main(String[] args)
    {
        Scanner in = new Scanner(System.in);

        int i;
        String s1, s2, s3;

        s1 = in.next();
        s2 = in.next();
        s3 = in.next();

        String longest;

        if ( s1.length() >= s2.length() )
        {
            longest = s1;
        }
        else
        {
            longest = s2;
        }

        if ( s3.length() > longest.length() )
        {
            longest = s3;
        }

        System.out.println( "the longest string is " + longest );

    }
}
```