

Question #2: 4 Short questions

[4pts]

1. Consider the code with its line numbers (#). Explain briefly what happens with the for loop when the continue statement on 4# is encountered. And state which statement is executed next.

```
1# int num = 0, i=0;
2# while(i++<5) i=2 3
3# { if (i==2) num=1
4#   continue;
5#   num++;
6# }
7# num += 1;
```

if $i=2$ the continue skip the remainder and do next iteration
أي أنه سيقفز الباقي الذي تحت وشروع للدورة التالية مرة أخرى من البداية

And state which statement is executed next first $i=2$ and do post increment

then i is changing to 3 and don't equal 2 so will be executed

2. Fill line 3# to make the while loop execute....:

3 times	1 time only
1# int x = 0;	1# int x = 0;
2# while (x < 6) {	2# while (x < 6) {
3# x = <u>$x+2$</u> ;	3# x = <u>$x+6$</u> ;
4# }	4# }

3. Is this loop an infinite loop? Explain precisely.

```
1# int num = 9;
2# do {
3#   if (num < 9) break;
4#   num++;
5# }while(true);
```

flag

yes because the boolean flag don't change to false so stopped the loop also the num always not < 9

4. After this loop,

```
1# Scanner input = new Scanner(System.in);
2# int num;
3# while( num >= 0 ) {
4#   num = input.nextInt();
5# }
6#
```

when we reach line 6# the value of num can be: (check all that apply)

☒ negative

☐ zero

☐ positive

Question 1: Multiple choice (Note: ~ represent space)

1- Reading a double number using nextInt() is example of

a- Compilation error

☒ b- Run time error

c- Logical error

d- Design error

2- A program that read the price of two product and display the total and average has the following input

a- number of products

b- total price

c- total price and average

☒ d- price of two products

3- Which of the following values can a variable of type character NOT store?

a- Digit

☒ b- String

c- Space

d- Special character

4- Which of the following identifiers is valid?

a- email-Address

b- javaQuiz#1

☒ c- double_Price

d- 1stName

5- What will be the value of z after executing the following statements?

int x=0, y=3;

double z = y * 5 - 3 / x + 4;

a- 3.0

b- 4.0

c- Compilation error

☒ d- Run time error

6-What is the output of the following java statement:

System.out.println ((double) ('a' + 3)); // Unicode of 'a' = 97

a- 99.0

b- 100

☒ c- 100.0

d- Compilation error

7- What is the output of the following java statement:

int x=1, y=2, z=3;

System.out.println(x++ < y && y >= --z);

☒ a- true

b- false

c- Compilation error

d- Run time error

8- What is the output of the following java statement (Assume read is a Scanner and user input is: 9.0e1):

double x= read.nextDouble();

System.out.println(x);

a- 9.0

b- 9.0e

☒ c- Compilation error☒ d- Run time error

9- What is the output of the following java statement:

System.out.printf("%1.1f", 2.466);

☒ a- 2.5

b- 2.466

c- ~2.5

d- ~2.466

10- String str ="Exam1";

System.out.println (str.replace('x', '*'));

now the value of str is

a- Exam1

☒ b- E*am1

c- Syntax error

d- Run time error

[6pts]

extra -25
it + 0 -25