Question - 1
Question 1

SCORE: **10 points**

What is the output of this program?

```java
public class Demo {
    public static void main (String []args){
        for(int i=0;  i<10; i++){
            if(i==4){
                System.out.print(i+ " ");
                break;
            }
            if(i ==2 || i ==4|| i ==6) {
                System.out.print(i + " ");
                continue;
            }
        }
    }

}
```

- ○ 2 4
- ○ 2 4 6
- ○ 2
- ○ 4

Question - 2
Question 2

SCORE: **10 points**

```java
What is the output of this program?(
public class NumberGame {
    public static void main(String []args) {
        ArrayList<Integer> result = new
ArrayList<>();
        int[] nums = {2, 8, 3, 6, 1, 10, 5, 7,
4,3};
        int[] copy = nums;
        for (int i = 0; i < nums.size(); i++) {
            if (nums[i] % 2 == 1) {
                result.add(copy[i]);
                nums[i]++;
                break;
            }
        }
        for (int i: result) {
            System.out.print(i + " " );
        }
```

(?) Help

1/3

```
        }

    }
```

○ 3

○ 3 1 5 7 3

○ 4

◉ Compiler Error

Question - 3
Question 3

_____ is the Parent class of all classes in the java system.

○ String

○ Java.lang

◉ Object

○ Parent

Question - 4
Question 4

```java
public class Q4 {
    private static boolean
passwordPatternCorrect() {
    Pattern p =
Pattern.compile("_____");
    Matcher m = p.matcher("Do you like this
quiz?");
    boolean b = m.matches();
    System.out.print(b);
    return b;
}
    public static void main(String args[]){
        passwordPatternCorrect();
    }

}
```

Choose the code(s) fill in the gap that makes the b to be TRUE.(Please find all correct anwsers)

○ [a-zA-Z0-9?]+.$

◉ (\\w?)+?.*$

○ [\\w?]+

○ [\\d?]+

2/3

Question - 5
Question 5

SCORE: **10 points**

What is the output for the below code?

Which answer(s) match the given pattern?

Pattern: **a*b+c?**

○ ab

○ abc

○ bbcc

○ ac

○ bbbc

Question - 6
Coding : Rotate Array

SCORE: **50 points**

Given an array, rotate the array to the right by k steps, where k is non-negative.

Example 1:

```
Input: [1,2,3,4,5,6,7] and k = 3
Output: [5,6,7,1,2,3,4]
Explanation:
rotate 1 steps to the right: [7,1,2,3,4,5,6]
rotate 2 steps to the right: [6,7,1,2,3,4,5]
rotate 3 steps to the right: [5,6,7,1,2,3,4]
```

Example 2:

```
Input: [-1,-100,3,99] and k = 2
Output: [3,99,-1,-100]
Explanation:
rotate 1 steps to the right: [99,-1,-100,3]
rotate 2 steps to the right: [3,99,-1,-100]
```

If you're going to use custom case by yourself, please input array like:

1 2 3 4 5 6 7 8

3

(Split by " ")

second line input your parameter" k"