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1. Write a Java program that asks the user to enter a password using a for loop. The correct password is **"ammu"**. The program should allow the user up to five attempts to enter the correct password. If the password is correct, display **"Password matched"** and stop the loop; if the user enters the wrong password five times, display **"Sorry you entered wrong password many times😞. Try again after 24 hours."**

```
import java.util.Scanner;
public class ForLoop {
    Run | Debug
    public static void main(String[] args){
        Scanner sc= new Scanner(System.in);

        String password = "ammu";

        for(int attempt = 1; attempt <=5; attempt++){
            System.out.println(x: "Enter your password: ");
            String check_password= sc.nextLine();
            if (check_password.equals(password)){
                System.out.println(x: "Password matched");
                break;
            }
            if(attempt == 5){
                System.out.println(x: "Sorry you entered wrong password many times😞. Try again after 24 hours.");
            }
        }
        sc.close();
    }
}
```

```
● amritchand@Amrits-MacBook-Air try % cd "/Users/amritchand/Desktop/try"
Enter your password:
ammu
Password matched
○ amritchand@Amrits-MacBook-Air try %
```

```
● amritchand@Amrits-MacBook-Air try % cd "/Users/amritchand/Desktop/try/"
Enter your password:
a
Enter your password:
s
Enter your password:
s
Enter your password:
s
Enter your password:
s
Sorry you entered wrong password many times😞. Try again after 24 hours.
○ amritchand@Amrits-MacBook-Air try %
```

2. Write a Java program using nested for loops that asks the user to enter any symbol and then prints a right-angled triangle pattern of that symbol, starting with one symbol in the first line, two in the second, and continuing up to five symbols in the fifth line.

```
13 import java.util.Scanner;
14
15 public class ForLoopTry{
    Run | Debug
16     public static void main(String[] args) {
17         System.out.println(x: "Enter a symbol : ");
18         Scanner sc = new Scanner(System.in);
19         String symbol = sc.nextLine();
20         for(int i= 0; i<5; i++){
21             for (int j = 0; j<=i; j++){
22                 System.out.print(symbol);
23             }
24             System.out.println(x: "");
25         }
26         sc.close();
27     }
28 }
```

```
● amritchand@Amrits-MacBook-Air try % cd "/Users/amritchand/Desktop/try "/"
LoopTry
Enter a symbol :
😎
😎
😎😎
😎😎😎
😎😎😎😎
😎😎😎😎😎
○ amritchand@Amrits-MacBook-Air try %
```

3. There is a fixed password 1234. Ask the user to input the password 5 times. If the user gets the password correct then print **password correct** else terminate after 5 time (**Using while loop**).

```
36 import java.util.Scanner;
37 public class WhileLoop {
    Run | Debug
38     public static void main(String[] args) {
39         int password = 1234;
40         Scanner sc = new Scanner(System.in);
41         int count =1;
42         while (count<=5){
43             System.out.println(x: "Enter a passsword : ");
44             int pass1 =sc.nextInt();
45             if (password == pass1){
46
47                 System.out.println(x: "password matched");
48                 break;
49             }
50             else {
51                 count+=1;
52             }
53         }
54         if (count==6){
55             System.out.println(x: "password incorrect");
56         }
57         sc.close();
58     }
59 }
```

```
● amritchand@Amrits-MacBook-Air try % cd "/Users/amritchand/Desktop/try /"
eLoop
Enter a passsword :
1234
password matched
○ amritchand@Amrits-MacBook-Air try %
```

```
● amritchand@Amrits-MacBook-Air try % cd "/Users/amritchand/Desktop/try /"
eLoop
Enter a passsword :
12
Enter a passsword :
11
Enter a passsword :
453
Enter a passsword :
20
Enter a passsword :
20
password incorrect
○ amritchand@Amrits-MacBook-Air try %
```

4. Write a Java program that repeatedly asks the user to enter numbers until the user enters 0. The program should keep a separate sum of all **even numbers** and all **odd numbers**, and at the end, display the sum of even numbers and the sum of odd numbers.

```
87 import java.util.Scanner;
88 public class WhileLoop {
    Run | Debug
89     public static void main(String[] args) {
90         Scanner sc = new Scanner (System.in);
91         int even=0;
92         int odd=0;
93         while(true){
94             System.out.println(x: "Enter a number : ");
95             int num = sc.nextInt();
96             if (num == 0){
97                 System.out.println(x: "Congratulation! You entered Zero");
98                 break;
99             }
100             else{
101                 if (num%2==0){
102                     even += num;
103                 }
104                 else{
105                     odd += num;
106                 }
107             }
108         }
109         System.out.println("Sum of the even numbers : "+even );
110         System.out.println("Sum of the odd numbers : "+odd);
111         sc.close();
112     }
113 }
```

```
● amritchand@Amrits-MacBook-Air try % cd "/Users/amritchand/Desktop/try/"
Enter a number :
4
Enter a number :
20
Enter a number :
3
Enter a number :
11
Enter a number :
0
Congratulation! You entered Zero
Sum of the even numbers : 24
Sum of the odd numbers : 14
○ amritchand@Amrits-MacBook-Air try %
```

Git Hub Link: [https://github.com/Amrit-Chand7/group\\_3\\_unity-](https://github.com/Amrit-Chand7/group_3_unity-)