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

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

```
● amritchand@Amrits-MacBook-Air try % cd "/Users/amritchand/Desktop/try /"
eLoop
Enter a password :
12
Enter a password :
11
Enter a password :
453
Enter a password :
20
Enter a password :
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 {
89     Run | Debug
90     public static void main(String[] args) {
91         Scanner sc = new Scanner (System.in);
92         int even=0;
93         int odd=0;
94         while(true){
95             System.out.println("Enter a number : ");
96             int num = sc.nextInt();
97             if (num == 0){
98                 System.out.println("Congratulation! You entered Zero");
99                 break;
100            } else{
101                if (num%2==0){
102                    even += num;
103                } else{
104                    odd += num;
105                }
106            }
107        }
108        System.out.println("Sum of the even numbers : "+even );
109        System.out.println("Sum of the odd numbers : "+odd );
110        sc.close();
111    }
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-)