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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-

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- week1 merge amrit to main 4 minutes ago
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Name	Last commit message	Last commit date
..		
amrit	merge amrit to main	5 minutes ago
anup	Added my_task.java in anup folder	2 months ago
jenish	Java code added on the files.	2 months ago
.DS_Store	Add the java task(nov 8)	25 minutes ago
first.txt	This is our first commit	2 months ago

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Amrit-Chand7 merge amrit to main 89441c2 · 5 minutes ago History

Name	Last commit message	Last commit date
..		
Task of java.pdf	merge amrit branch	2 months ago
amrit.txt	previous task of java	2 months ago
java_task(nov 8).pdf	Add the java task(nov 8)	25 minutes ago

5. Write a Java program using a for loop and if statement to print all numbers between 1 and 50 that are divisible by either 3 or 5, but not both.

```
1  public class AllTask {  
    Run | Debug  
2  public static void main(String[] args) {  
3      for(int i = 2; i<50; i++){  
4          if (i%3 ==0 && i%5==0){  
5              continue;  
6          }  
7          else if (i%3 ==0 || i%5==0){  
8              System.out.println(i);  
9          }  
10     }  
11 }  
12 }  
13
```

```
● amritchand@Amrits-MacBook-Air try % cd "/Users/amritchand/Desktop,  
3  
5  
6  
9  
10  
12  
18  
20  
21  
24  
25  
27  
33  
35  
36  
39  
40  
42  
48
```

6. Write a Java program that takes a number from the user and prints all numbers from 1 to that number, but skips printing multiples of 4 using an if condition inside a for loop.

```
16  import java.util.Scanner;
17  ✓ public class AllTask{
    Run | Debug
18  ✓  public static void main(String[] args) {
19      Scanner sc = new Scanner (System.in);
20      System.out.print(s: "Enter a number : ");
21      int num= sc.nextInt();
22  ✓  for (int i = 1; i<=num; i++){
23  ✓      if (i%4 == 0){
24          continue;
25      }
26  ✓  else{
27      System.out.println(i);
28      }
29  }
30
31  sc.close();
32  }
33  }
```

```
● amritchand@Amrits-MacBook-Air try % cd "/Users/amritchand/Desktop/try"
Enter a number : 20
1
2
3
5
6
7
9
10
11
13
14
15
17
18
19
○ amritchand@Amrits-MacBook-Air try %
```

7. Write a Java program using a for loop and if statements to print "Fizz" for numbers divisible by 3, "Buzz" for numbers divisible by 5, and "FizzBuzz" for numbers divisible by both, between 1 and 30.

```
36 public class AllTask{
    Run | Debug
37     public static void main(String[] args) {
38         for (int i = 2; i<30; i++){
39             if (i%3==0 && i%5 ==0){
40                 System.out.println(x: "FizzBuzz");
41             }
42             else if (i%3 ==0){
43                 System.out.println(x: "Fizz");
44             }
45             else if (i %5==0){
46                 System.out.println(x: "Buzz");
47             }
48             else {
49                 System.out.println(i);
50             }
51         }
52     }
53 }
```

```
● amritchand@Amrits-MacBook-Air try % cd "/Users/amritchand/Desktop/try"
2
Fizz
4
Buzz
Fizz
7
8
Fizz
Buzz
11
Fizz
13
14
FizzBuzz
16
17
Fizz
19
Buzz
```

8. Write a Java program that prints the sum of even numbers and the product of odd numbers between 1 and 10 using a for loop and if condition.

```
76 public class AllTask{
    Run | Debug
77     public static void main(String[] args) {
78         int even_sum = 0;
79         int odd_product= 1;
80         for (int i=2 ; i<10; i++){
81             if (i%2 == 0){
82                 even_sum+= i;
83             }
84             else{
85                 odd_product*=i;
86             }
87         }
88         System.out.println("The sum of even number is : "+even_sum);
89         System.out.println("The product of odd number is : "+odd_product);
90     }
91 }
```

```
● amritchand@Amrits-MacBook-Air try % cd "/Users/amritchand/Desktop/try"
The sum of even number is : 20
The product of odd number is : 945
○ amritchand@Amrits-MacBook-Air try %
```

9. Write a Java program using a for loop that prints numbers from 1 to 30, but:
- Prints "skip" instead of 15,
 - Doubles any number divisible by 4 before printing,
 - And prints "done" at the end.

```
95  public class AllTask{
    Run | Debug
96      public static void main(String[] args) {
97          for (int i = 1; i<=30 ; i++){
98              if (i==15){
99                  System.out.println(x: "skip");
100             }
101             else if(i%4==0) {
102                 System.out.println(i*2);
103             }
104             else{
105                 System.out.println(i);
106             }
107         }
108         System.out.println(x: "done");
109     }
110 }
```

```
● amritchand@Amrits-MacBook-Air try % cd "/Users/amritchand/Desktop/try"
1
2
3
8
5
6
7
16
9
10
11
24
13
14
skip
32
17
18
19
40
21
22
23
48
25
26
27
56
29
30
done
```

10. Write a Java program that simulates an ATM PIN verification system.
The program should have a correct PIN stored (for example, 1234) and allow the user up to three attempts to enter the correct PIN.

- If the user enters the correct PIN, print "Access Granted" and stop the program.
- If the user enters the wrong PIN, print "Incorrect PIN, try again".
- After three incorrect attempts, print "Account locked".

```
114 import java.util.Scanner;
115 public class AllTask {
116     Run | Debug
117     public static void main(String[] args){
118         Scanner sc= new Scanner(System.in);
119         String password = "1234";
120
121         for(int attempt = 1; attempt <=3; attempt++){
122             System.out.print(s: "Enter your password: ");
123             String check_password= sc.nextLine();
124             if (check_password.equals(password)){
125                 System.out.println(x: "Access Granted");
126                 break;
127             }
128             else if(attempt == 3){
129                 System.out.println(x: "Account locked");
130             }
131             else if(!check_password.equals(password)) {
132                 System.out.println(x: "Incorrect PIN, try again");
133             }
134         }
135         sc.close();
136     }
137 }
```

```
● amritchand@Amrits-MacBook-Air tyr % cd "/Users/amritchand/tyr/"
ask
Enter your password: 123
Incorrect PIN, try again
Enter your password: 123
Incorrect PIN, try again
Enter your password: 12
Account locked
● amritchand@Amrits-MacBook-Air tyr % cd "/Users/amritchand/tyr/"
ask
Enter your password: 1234
Access Granted
```