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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
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{
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
48                  System.out.println("password matched");
49                  break;
50              } else {
51                  count+=1;
52              }
53          }
54          if (count==6){
55              System.out.println("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  % []
```

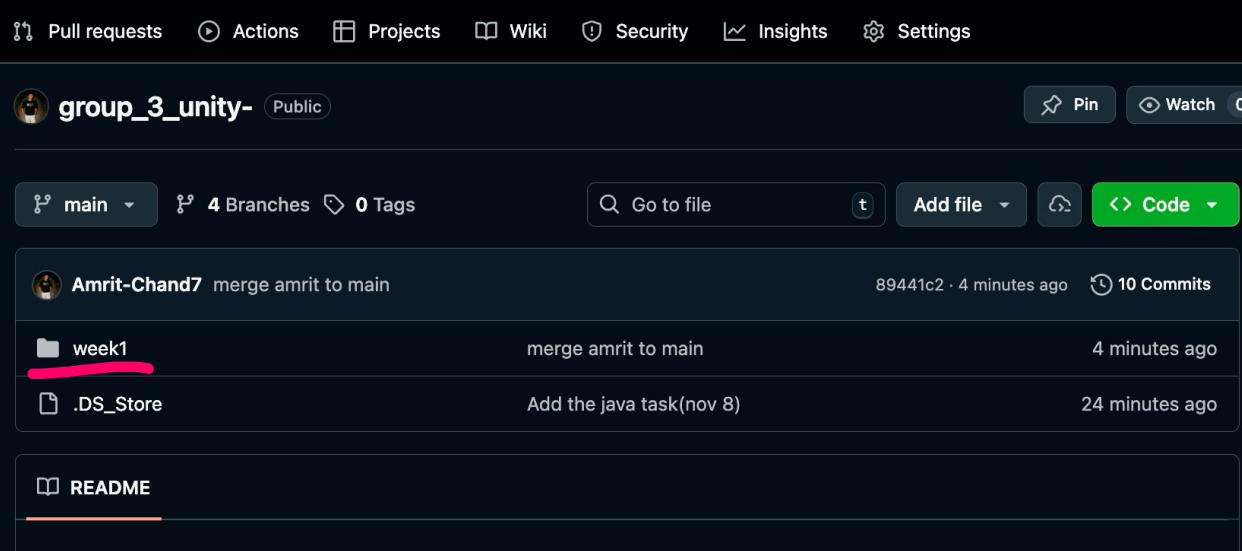
```
● amritchand@Amrits-MacBook-Air try  % cd "/Users/amritchand/Desktop/try /"
eLoop
Enter a passsword :
12
Enter a passsword :
11
Enter a passsword :
453
Enter a passsword :
20
Enter a passsword :
20
password incorrect
○ amritchand@Amrits-MacBook-Air try  % []
```

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 {
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  %
```

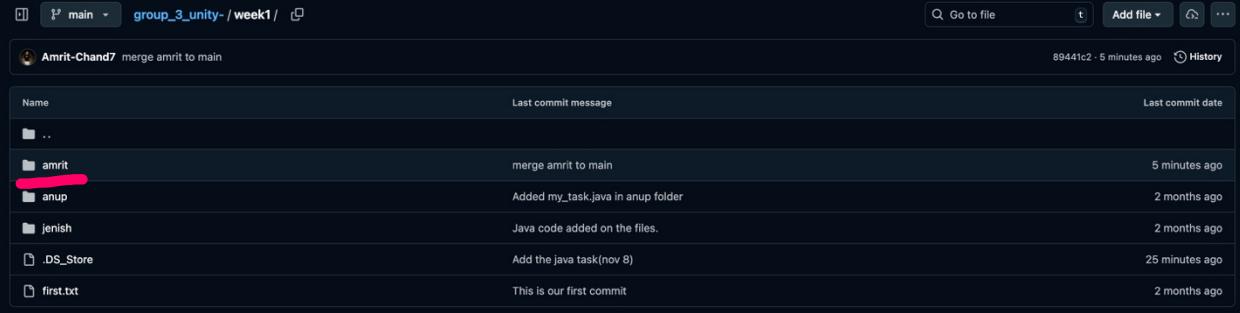
Git Hub Link: https://github.com/Amrit-Chand7/group_3_unity-



The screenshot shows the GitHub repository 'group_3_unity-' with the 'main' branch selected. It displays four branches and zero tags. The repository is public. A recent commit by 'Amrit-Chand7' titled 'merge amrit to main' is shown, dated 89441c2 · 4 minutes ago, with 10 commits. The commit details are as follows:

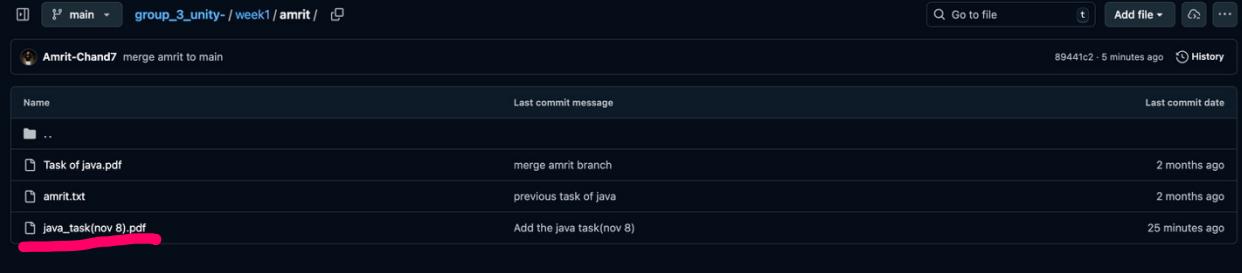
File	Message	Date
week1	merge amrit to main	4 minutes ago
.DS_Store	Add the java task(nov 8)	24 minutes ago

Below the commit list is a 'README' file.



The screenshot shows the repository 'group_3_unity-/week1/'. The commit history for the 'main' branch is displayed, showing the following commits:

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



The screenshot shows the repository 'group_3_unity-/week1/amrit/'. The commit history for the 'main' branch is displayed, showing the following commits:

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 {  
2      Run | Debug  
3      public static void main(String[] args) {  
4          for(int i = 2; i<50; i++){  
5              if (i%3 ==0 && i%5==0){  
6                  continue;  
7              }  
8              else if (i%3 ==0 || i%5==0){  
9                  System.out.println(i);  
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{
18      Run | Debug
19      public static void main(String[] args) {
20          Scanner sc = new Scanner (System.in);
21          System.out.print(s: "Enter a number : ");
22          int num= sc.nextInt();
23          for (int i = 1; i<=num; i++){
24              if (i%4 == 0){
25                  continue;
26              }
27              else{
28                  System.out.println(i);
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{
37      Run | Debug
38      public static void main(String[] args) {
39          for (int i = 2; i<30; i++){
40              if (i%3==0 && i%5 ==0){
41                  System.out.println(x: "FizzBuzz");
42              }
43              else if (i%3 ==0){
44                  System.out.println(x: "Fizz");
45              }
46              else if (i %5==0){
47                  System.out.println(x: "Buzz");
48              }
49              else {
50                  System.out.println(i);
51              }
52          }
53      }
54  }
```

```
● 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{
77      Run | Debug
78      public static void main(String[] args) {
79          int even_sum = 0;
80          int odd_product= 1;
81          for (int i=2 ; i<10; i++){
82              if (i%2 == 0){
83                  even_sum+= i;
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{
96      Run | Debug
97      public static void main(String[] args) {
98          for (int i = 1; i<=30 ; i++){
99              if (i==15){
100                  System.out.println(x: "skip");
101              }
102              else if(i%4==0) {
103                  System.out.println(i*2);
104              }
105              else{
106                  System.out.println(i);
107              }
108          }
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
120          String password = "1234";
121
122          for(int attempt = 1; attempt <=3; attempt++){
123              System.out.print("Enter your password: ");
124              String check_password= sc.nextLine();
125              if (check_password.equals(password)){
126                  System.out.println("Access Granted");
127                  break;
128              }
129              else if(attempt == 3){
130                  System.out.println("Account locked");
131              }
132              else if(!check_password.equals(password)) {
133                  System.out.println("Incorrect PIN, try again");
134              }
135          }
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
```