

**NAME: Komal Tariq**

**ID: BIT-23F-021**

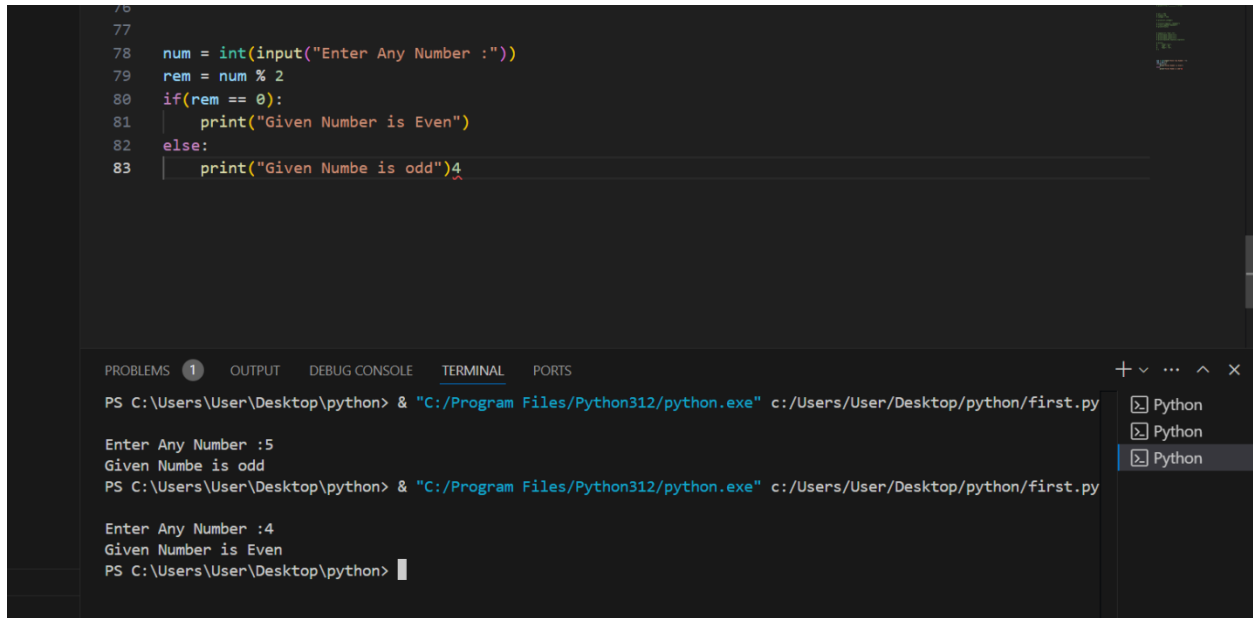
**DEPARTMENT: IT**

**COURSE: ARTIFICIAL INTELLIGENCE**

**SECTION: B**

# Lab 04

**Lab Task 1: Write a Python function to check if a number is even or odd.**



```
76
77
78 num = int(input("Enter Any Number :"))
79 rem = num % 2
80 if(rem == 0):
81     print("Given Number is Even")
82 else:
83     print("Given Numbe is odd")4
```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\User\Desktop\python> & "C:/Program Files/Python312/python.exe" c:/Users/User/Desktop/python/first.py

Enter Any Number :5  
Given Numbe is odd

PS C:\Users\User\Desktop\python> & "C:/Program Files/Python312/python.exe" c:/Users/User/Desktop/python/first.py

Enter Any Number :4  
Given Number is Even

PS C:\Users\User\Desktop\python> |

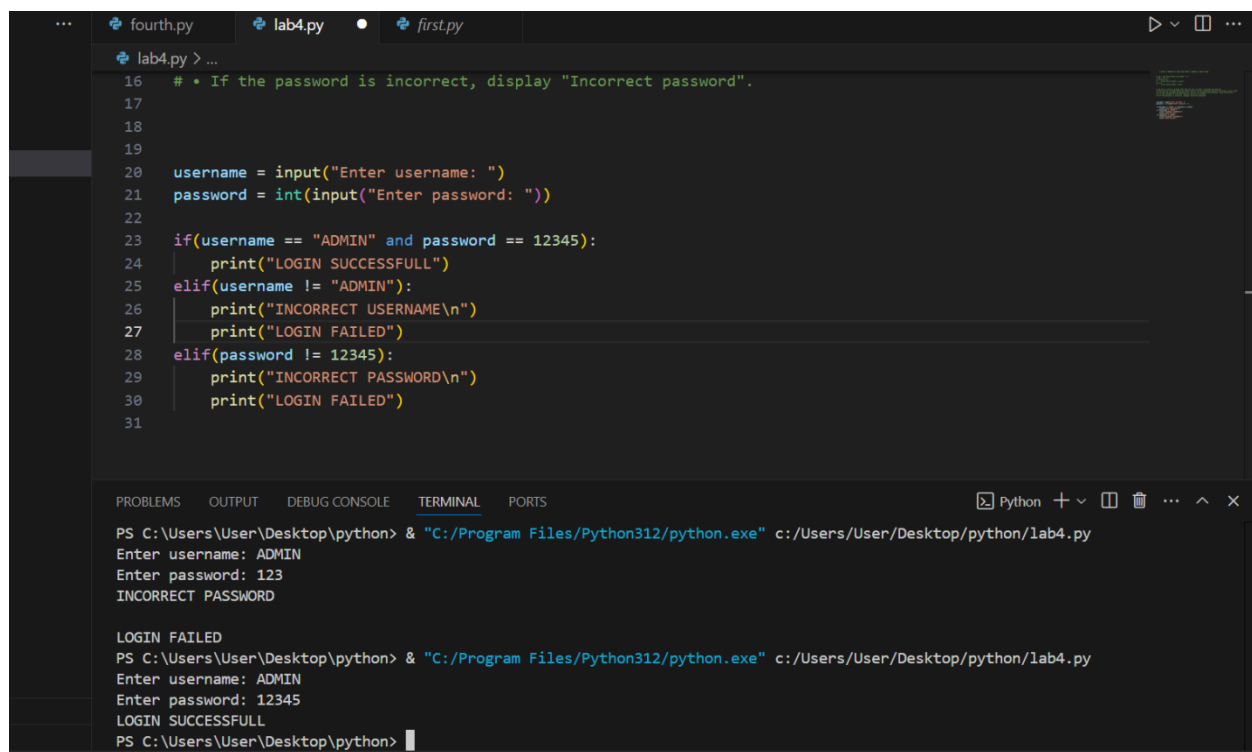
**Lab Task 2: Simple ATM Machine Create a simple ATM program where the user has to enter a PIN to proceed.**

- The correct PIN should be 1234.
- If the user enters the correct PIN, display a menu that allows the user to:
  - Check Balance (display a fixed balance, e.g., 1000).
  - Withdraw Money (ask the user how much they want to withdraw and deduct that amount from the balance).
- If the user enters an incorrect PIN, print "Incorrect PIN" and terminate the program.



### Lab Task 3: Write a program that asks the user to enter a username and password.

- The correct username should be "admin" and the correct password should be the numeric value 12345.
- If both the username and password are correct, the program should display "Login Successful!".
- If the username is incorrect, display "Incorrect username".
- If the password is incorrect, display "Incorrect password".



The screenshot shows a Python IDE with a file named `lab4.py` open. The code in the editor is as follows:

```
16 # * If the password is incorrect, display "Incorrect password".
17
18
19
20 username = input("Enter username: ")
21 password = int(input("Enter password: "))
22
23 if(username == "ADMIN" and password == 12345):
24     print("LOGIN SUCCESSFULL")
25 elif(username != "ADMIN"):
26     print("INCORRECT USERNAME\n")
27     print("LOGIN FAILED")
28 elif(password != 12345):
29     print("INCORRECT PASSWORD\n")
30     print("LOGIN FAILED")
31
```

Below the editor is a terminal window showing the execution of the program. The first run shows an incorrect password error, and the second run shows a successful login.

```
PS C:\Users\User\Desktop\python> & "C:/Program Files/Python312/python.exe" c:/Users/User/Desktop/python/lab4.py
Enter username: ADMIN
Enter password: 123
INCORRECT PASSWORD

LOGIN FAILED
PS C:\Users\User\Desktop\python> & "C:/Program Files/Python312/python.exe" c:/Users/User/Desktop/python/lab4.py
Enter username: ADMIN
Enter password: 12345
LOGIN SUCCESSFULL
PS C:\Users\User\Desktop\python>
```