

Date: 13/01/2025

Task 2: Implement conditional, control and looping statement.

a) Temperature Alert system

Aim:- To write a python program that takes room temperature as input and prints.

- "too cold" if temperature ≤ 18
- "comfortable" if $18 \leq \text{temperature} \leq 25$
- "too hot" if temperature > 25

Algorithm:-

- 1) Start the program
 - 2) Accept room temperature from the user
 - 3) Use if-else-if condition to check the temperature range.
 - If temperature ≤ 18 , display "too cold"
 - Else if temperature is between 18 and 25 (inclusive), display "comfortable"
 - Else, display "too hot".
- End of Program.

Answers are on (not "for" the) form
(or & etc. by hand)

output

Enter your item temperature
comfortable.

(or & etc. for the) library
(concrete was hot

AERI TECH - CSE	
Lx No.	1
ERLORWANICE (2)	2
KESULTAHAN DAN ANALYSIS (2)	3
VIVA VOCCE (2)	4
LIB. (RBD) (2)	5
LIB. (CF) (20)	6
LIB. WITH DATE	7

Program:

```
temp = float(input("Enter room temperature"))  
if temp < 15:  
    print("too cold")  
elif temp >= 25:  
    print("comfortable")  
else:  
    print("too hot")
```

~~Result:~~ The program successfully checked
the temperature and printed the
appropriate alert based on the
given condition.

Date: 20/2/25

6) Password Policy system (while loop)

Aim:- To develop a Python program that allows the user up to 3 attempts to enter the correct password using a while loop. The correct password is "admin123".

Algorithm:-

1. Start the program.
2. Initialize the attempt count to 0.
3. Repeat the following steps while attempts are less than 3.
 - Ask the user to enter a password.
 - If the password is correct, display a message.
 - Otherwise, increase the attempt count.
4. If 3 incorrect attempts are made, display an access denied message.
5. End the program.

Program:-

correct - Password = "admin123"

attempts = 3

while attempts < 3;

25/08/2023

(root admin) on top of browser

input password root & get root or imp
entered password is pass uncorrected password
new browser for us
Enter password : admin ~~incorrect~~ ~~root~~ ~~password~~
incorrect password and root after
enter password : admin 123 ~~Access granted~~

~~OK~~

0 of 1 was imported into brwse
After enter root into the destination
Entered root into the destination & click OK
root was imported into browser
After enter root into the destination
root was imported into browser & click OK
Imported root into browser & click OK
Imported root into browser & click OK

```
user_input = input("Enter Password:")
if user_input == correct_password:
    print("Access granted")
    break
else:
    print("Incorrect Password")
    attempts += 1
    if attempts == 3:
        print("Access denied. too many attempts")
```

Result :-

The program correctly validates the password with a maximum of 3 attempts using a while loop.

Consequently, the "fitter" is the one
outwardly possessed of those ~~good~~ ^{desirable} qualities.

Enters a number: ~~3~~ 2014 01 01

factored: $i-120$

~~brown~~ ~~dark~~ ~~grey~~ ~~grey~~

Let α and β

$\langle E = \pm \rangle$ amotto

222 A 17 Aug

a) factorial using for loop

Ques: To write a python program that accepts a number and calculates its factorial using a for loop.

Algorithm:

- 1) Start the program
- 2) Accept a number from the user
- 3) Initialize a variable fact to 1
- 4) Use a for loop from 1 to the given number (inclusive) multiply fact by each number.
- 5) Display the result.
- 6) End the program.

Program:

```
num = int(input("Enter a number:"))
```

```
fact = 1
```

```
for i in range(1, num+1):
```

```
    fact *= i
```

```
print("Factorial is", fact)
```

VEL TECH - CSE	
EX NO.	52
PERFORMANCE (5)	5
SUMMATIVE ASSESSMENT (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	15
SIGN WITH DATE	6/6

~~Result: The program accurately calculated the factorial of the input number wrong in the for loop.~~