

a) OUTPUT:

Enter the room temperature: 56

Too hot.

Date: 30-07-25

Task 2: Implement conditional, control and looping statements

a) Temperature Alert system (if-elif)

Aim: To write a python programming that use to implement the condition, control and looping statements.

a) Temperature Alert system (if-elif)

A smart thermostat triggers alerts based on room temperature. Write a Python Program that takes room temperature as input and prints:

Program:-

```
temperature = float(input("Enter room temperature:"))
```

```
if temperature < 18:
```

```
    print("Too cold")
```

```
elif 18 <= temperature <= 25:
```

```
    print("Comfortable")
```

```
else: print("Too Hot")
```

b) Password Retry System (while loop)

A login system allows a maximum of 3 password attempts. Write a Python program that keeps asking for a password until the user gets it right or exhaust 3 attempts.

b) OUTPUT:

Enter the your password : admin123

Login Successful!

c) OUTPUT:

Enter a number to find its factorial: 5

The factorial of 5 is 120.

Program:

Correct\_password = "admin123"

attempts = 0

while attempts < 3:

password = input("Enter password: ")

if password ==

Correct\_password:

print("Access Granted")

break

else: print("Incorrect password")

attempts += 1

if attempts == 3:

print("Access Denied. Too many attempts.")

c. Factorial Finder (for loop)

Program:

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

factorial = 1

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

factorial \*= i

print("Factorial of", num, "is", factorial)

print("Factorial: ", factorial)

VHL TECH - ONE	
EX NO.	2
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	20

Result: We successfully implemented conditional, control and looping statements.

20/10/25

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