

NAVTTTC

ADVANCED PYTHON PROGRAMMING & APPLICATIONS

Task 1: Write a Program to get 2 numbers from user and compare if value1 is greater than value2

Solution:

```
num1 = int(input("Enter first number: "))
num2 = int(input("Enter second number: "))
if num1 > num2:
    print(num1, " is greater than ", num2)
else:
    print(num1, " is less than ", num2)
```

Task 2: Make a program to check if number is greater than or less than 10

Solution:

```
num = int(input("Enter a number: "))
if num < 10:
    print("Number is smaller than 10")
elif num == 10:
    print("Number is equal to 10")
else:
    print("Number is greater than 10")
```

Task 3: Use logical operator and check if the number entered by user is in between 20 and 50

Solution:

```
num = int(input("Enter a number: "))
if num > 20 and num < 50:
    print("Number is between 20 and 50")
```

```
elif num == 50 or num == 20:  
    print("Number is equal to 20 or 50")  
else:  
    print("Number is not between 20 and 50")
```

Task 4: Through using any operator check if entered number is divisible by 7 or not

Solution:

```
num = int(input("Enter a number: "))  
if(num % 7 == 0):  
    print("Number is divisible by 7")  
else:  
    print("Number is not divisible by 7")
```

Task 5: Write a program and check if the user age is eligible for senior citizenship or not

Solution:

```
age = int(input("Enter your age: "))  
if age > 60:  
    print("You are eligible for Senior citizenship")  
else:  
    print("You are not eligible for Senior citizenship")
```

Task 6: Write a program and check what datatype has user entered in input

Solution:

```
data_type = type(input("Enter something: "))  
print("Data Type of the given input is :",data_type)
```

Task 7: Write a program to check if user entered positive, negative or Zero number

Solution:

```
num = int(input("Enter a number: "))  
if num > 0:  
    print("The number is Positive")  
elif num < 0:  
    print("The number is Negative")  
else:  
    print("The number is Zero")
```

Task 8: Program to take temperature by user and print "cold" , "moderate" "hot" according to entered input

Solution:

```
temp = int(input("Enter Temperature: "))  
if temp < 10:  
    print("Cold")  
elif temp > 25:  
    print("Hot")  
else:  
    print("Moderate")
```