**NAVTTC**

**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")