

```
def function_name(parameters):
    #statement
    return expression

def add(num1: int, num2: int) -> int:
    num3 = num1 + num2

    return num3

a = int(input())
b = int(input())
print(add(a,b))
#print(f"The addition of {num1} and {num2} results {ans}.")
```

```
5
10
15
```

```
def default(x, y=50):
    print("x: ", x)
    print("y: ", y)

default(20)
```

## ✓ Types of python function arguments

1.Default argument 2.Keyword arguments(named arguments) 3.Positional arguments 4.Arbitrary arguments

```
def myFun(*argv):
    for arg in argv:
        print(arg)
```

```
def myFun(*argv):
    for arg in argv:
        print(arg)

myFun('Hello', 'Welcome', 'to', 'World')
```

```
def myFun(**kwargs):
    for key, value in kwargs.items():
        print("%s == %s" % (key, value))

myFun(first='Geeks', mid='for', last='Geeks')
```

```
def my_function(food):
    for x in food:
        print(x)

fruits = ["apple", "banana", "cherry"]

my_function(fruits)
```

```
def factorial(n):

    if n==1:

        return 1

    else:

        return n * factorial(n-1)

print(factorial(5))
```

```

File "<tokenize>", line 11
    print(factorial(5))
    ^
IndentationError: unindent does not match any outer indentation level

```

Next steps: [Explain error](#)

Start coding or [generate](#) with AI.

```

def monitor_temperature():
    # Get the upper and lower temperature limits from the user
    lower_limit = float(input("Enter the lower temperature limit (°C): "))
    upper_limit = float(input("Enter the upper temperature limit (°C): "))

    # Ask the user to input a temperature to check
    temperature = float(input("Enter the current temperature (°C): "))

    # Display the current temperature and alert
    print(f"Current Temperature: {temperature:.2f}°C")

    if temperature < lower_limit:
        print("ALERT: Temperature is too LOW!")
    elif temperature > upper_limit:
        print("ALERT: Temperature is too HIGH!")
    else:
        print("Temperature is NORMAL.")

# Call the function
monitor_temperature()

```

```

Enter the lower temperature limit (°C): 56
Enter the upper temperature limit (°C): 89
Enter the current temperature (°C): 60
Current Temperature: 60.00°C
Temperature is NORMAL.

```

#Generating OTP for authentication

```

import random

def generate_otp(length=6):
    otp = ""
    for _ in range(length):
        otp += str(random.randint(0,9))
    return otp

print("Your OTP is:", generate_otp())

```