## **CLASS NOTES**

numberList = [n1, n2, n3]return max(numberList)

Question: What exactly is a function in python? Answer: A function is a block of reusable code that performs a specific task.

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In [ ]:
          Question: Can we pass data to a function?
          Answer: Yes, the data that is passed to a function during function call is called as arguments
          For example:
In [41]: def greet(name):
              print("Hello "+name+"!")
          greet("Tashi")
          Hello Tashi!
 In [ ]:
 In []: Question: Can a function return data back?
          Yes, the data that is return from a function is return back to position where it was called
          For example:
In [40]: def incrementByOne(number):
              return float(number)
          num = 50
          hnum = incrementByOne(num)
          print(hnum)
          50.0
 In [ ]:
          Question: How many arguments can we pass to a function?
          Answer: We can pass any numbers of arguments to a function.
          For example:
In [42]: def AddTwoNumbers(n1, n2, n3):
              return n1+n2+n3
          num1=5
          num2=45
          num3=56
          print('Sum is: ', AddTwoNumbers(num1, num2, num3))
          Sum is: 106
 In [ ]:
          Notes: -function arguments can be of any data types such as int, float, list, tuple, set, dictionary etc -Similarly function return value can be
          of any data types
In [ ]: #function to find the max of 3 numbers
          def max0fThree(n1, n2, n3):
              if n1>n2 and n1>n3:
                  return n1
              elif n2>n3 and n2>n1:
                  return n2
                  return n3
          print('Greatest of 3 numbers is: ', maxOfThree(6,8,2))
 In [ ]: #function to find the max of 3 numbers
          def max0fThree(n1, n2, n3):
```

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print('Greatest of 3 numbers is: ', maxOfThree(13,4,9))

In []: #function to find the max of 3 numbers

def maxOfThree(numberList):
    return max(numberList)

print('Greatest of 3 numbers is: ', maxOfThree([103,4,9]))
```

## **Assignment Questions**

In [ ]:

1. Write a Python function that takes two numbers as arguments and returns

their sum. Can you make this function handle non-numeric inputs gracefully?

2. Write a Python function that checks if a given string is a palindrome (reads the

same backward as forward). The function should be case-insensitive.

3. Write a Python function that takes a list of numbers as input and returns a new

list containing only the even numbers. Use a loop and conditional statement within the function.

4. Write a Python function that calculates the factorial of a non-negative integer

passed as an argument. Remember, the factorial of a number is the product of all positive integers less than or equal to that number.

5. Write a Python function that takes a string as input and returns a new string

with all the vowels removed. Can you achieve this without using conditional statements for each vowel?

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