Using ChatGPT to build programs

All the tasks has further prompts to improve time and space complexity with various logic

Task 1: Program to build BMI Calculator
Prompt:
Write a program in Python to calculate BMI

Task 2: Program to display powers of 2 using anonymous function
Prompt:
Write a program to display powers of 2 using anonymous function

Task 3: Program to check if two Strings are Anagram.
Prompt:
Write a program to check if two Strings are Anagram.

(Display the time complexity for each program showcase the execution efficiency)

Interpreting Code using ChatGPT 4.0

Task 1 : How to upload code file ? Demo file
Task 2 : Modify the existing code file adding extra code features
Task 3 : Download the modified code file

Debugging with ChatGPT

Task 1: Paste /Type below code on ChatGPT interface and find the type of error
Code:
```
my_list = [10, 20, 30, 40, 50]
index_to_access = int(input("Enter the index you want to access: "))
value = my_list[index_to_access]
print(f"The value at index {} is: {value}")
```

Prompt 1:
Debug the program and provide corrected code

Prompt 2:

Is there any other method which can be used in coding the same problem statement

Task 1: Paste /Type below code on ChatGPT interface and find the type of error

Code:

```
class MyClass:
    def my_method(self):
        print("Hello, Everyone!")
class MySubclass(MyClass):
    def my_method(self):
        print("Thankyou!")
obj =
obj.my_method()
```

Prompt 1:

Debug the program and provide corrected code

Prompt 2:

Is there any other method which can be used in coding the same problem statement

Exception Handling with ChatGPT

Task 1: Paste /Type below code on ChatGPT interface and find the type of error

Code:

```
a = [10, 20, 30, 40, 50]
index_accessing = int(input("Enter the index you want to access: "))
value = a[index_accessing]
print(f"The value at index {index_accessing} is: {value}")
```

Prompt 1:

 Add an exception for the above code

Prompt 2:

Add an exception to handle decimal index value

Task 2: Paste /Type below code on ChatGPT interface and find the type of error

Code:

```
numerator = 10
denominator = 0
result = numerator / denominator  # This line will cause a ZeroDivisionError
```

```
print("Result:", result)
```

Testing using ChatGPT

Prompt 1:
Write unit test for above code

Extra uses of ChatGPT
Prompt 1:
Provide code documentation for the above code
Prompt 2:
Suggest code improvement ideas for the above code
Prompt 3:
Implement any one of the idea and provide the code
Prompt 4:
Create a dummy spreadsheet with four columns (Name, Age, Income, City) and fill it with 10 rows of dummy data. Format the resulting spreadsheet data as a table.
Check in GPT 3.5 and 4