Lab Task 2

Mini Project 1

How the Program Works:

The program iterates through each number from 1 to 100.

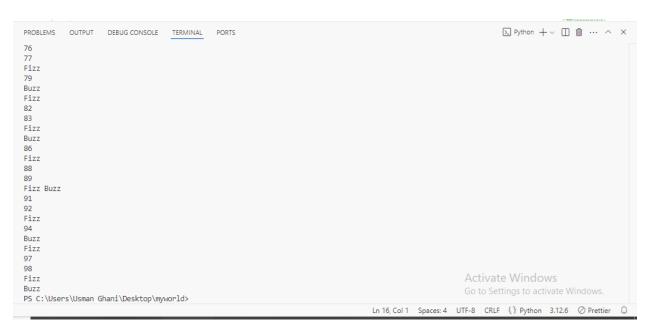
For each number:

If it is divisible by both 3 and 5, it prints "Fizz Buzz".

If it is divisible only by 3, it prints "Fizz".

If it is divisible only by 5, it prints "Buzz".

If it is divisible by neither 3 nor 5, it simply prints the number.



Mini Project 2

Explanation of the Code:

Movies Dataset:

Movie name (string)

Movie budget (integer)

Calculate_Average_budget Function:

This function calculates the average budget of all movies in the dataset.

It sums the budgets) and then divides by the number of movies using len (movies).

Find_high_budget_movies Function:

This function checks for movies that have a budget greater than the average.

It creates a list of tuples, where each tuple contains the movie name and the difference between its budget and the average budget.

Display_high_budget_movies Function:

This function prints out each movie from the high-budget list along with how much its budget is above the average.

Add movies Function:

This function allows users to add more movies to the dataset.

The user is prompted to specify how many movies to add, and then for each movie, it asks for the movie's name and budget, which is appended to the movies list.

Main Function:

The main function orchestrates the program.

It first asks the user if they want to add more movies.

It then calculates the average budget, identifies high-budget movies, and displays them.

Finally, it prints the total number of movies that have a higher-than-average budget.

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS Σ Python + \vee \square $\stackrel{...}{\square}$ \cdots \wedge \times PS C:\Users\Usman Ghani\Desktop\myworld> & "C:/Program Files/Python312/python.exe" "c:/Users/Usman Ghani\Desktop/myworld/AI_LAB_Task_2.py" Do you want to add more movies? (yes/no): yes How many movies would you like to add? 1 Enter movie name: Hum apke ha kun Enter budget for 'Hum apke ha kun': 2000000 The average budget of the movies is: \$166,937,500.00 Movies with a budget higher than the average: Pirates of the Caribbean: On Stranger Tides: \$212,062,500.0 more than the average Avengers: Age of Ultron: \$198,062,500.0 more than the average Avengers: Endgame: \$189,062,500.0 more than the average Incredibles 2: \$33,062,500.0 more than the average Total number of movies with a higher-than_average budget: 4 PS C:\Users\Usman Ghani\Desktop\myworld> Ln 93, Col 1 Spaces: 4 UTF-8 CRLF () Python 3.12.6 ⊘ Prettier ℚ