**Name : Abdul Rehman**

**Roll number : 052**

**Section : BSDS\_3A**

**Task 02 :**

**1. FizzBuzzGame**

**Description**

The FizzBuzzGame is a simple Python program that prints numbers from 1 up to a given limit.  
Instead of printing certain numbers, it replaces them with specific words based on divisibility rules.

* If a number is divisible by 3, it prints **Fizz**.
* If a number is divisible by 5, it prints **Buzz**.
* If a number is divisible by both 3 and 5, it prints **FizzBuzz**.
* All other numbers are printed normally.

**Working Principle**

The program uses a class named FizzBuzzGame. When the game starts, it loops from 1 up to the chosen limit and applies the above rules.  
It demonstrates the use of loops, conditions, and basic class structure in Python.

**Example Output**

The program first displays FizzBuzz results up to 15, then up to 30, separating both outputs with a line for clarity.

**Purpose**

This project helps beginners understand how to use loops, conditional statements, and object-oriented programming concepts in Python.

**2. MovieBudgetAnalyzer**

**Description**

The MovieBudgetAnalyzer is a Python-based program that stores and analyzes the budgets of different movies.  
It allows users to add new movies and calculates which ones have budgets higher than the overall average.

**Features**

* Comes with a predefined list of famous movies and their budgets.
* Allows the user to add more movies with custom names and budgets.
* Calculates the average movie budget.
* Displays all movies with a budget higher than the average.
* Shows how many movies exceed the average budget.

**Working Principle**

The program asks the user whether they want to add more movies.  
After confirming the list, it calculates the total and average budgets, then compares each movie’s budget against the average.  
Finally, it lists all high-budget movies and how much their budgets exceed the average.

**Example Output**

The program displays the average budget of all movies and then lists the names of movies with budgets above the average, along with their difference from the average.  
It also shows the total number of such movies.

**Purpose**

This project demonstrates how to work with lists, loops, user input, calculations, and formatted output in Python.  
It is a practical example of how simple data analysis can be performed using Python classes and logic.