```
In [2]: print("Welcome to Fizz Buzz!")
        print("Enter a number to play and type 'q' to quit\n")
        while True:
            user_input = input("Enter a number to play and type 'q' to quit: ")
            if user_input.lower() == 'q':
                print("Game Over. Thanks for playing!")
                break
            if not user_input.isdigit():
                print("Please enter a valid number.")
                continue
            num = int(user input)
            if num % 3 == 0 and num % 5 == 0:
                print("Fizz Buzz")
            elif num % 3 == 0:
                print("Fizz")
            elif num % 5 == 0:
                print("Buzz")
            else:
                print(num)
       Welcome to Fizz Buzz!
       Enter a number to play and type 'q' to quit
       Fizz
       Fizz
       Game Over. Thanks for playing!
In [4]: movies = [
            ("Eternal Sunshine of the Spotless Mind", 20000000),
            ("Memento", 9000000),
            ("Requiem for a Dream", 4500000),
            ("Pirates of the Caribbean: On Stranger Tides", 379000000),
            ("Avengers: Age of Ultron", 365000000),
            ("Avengers: Endgame", 356000000),
            ("Incredibles 2", 200000000)
        ]
        print("Welcome to Movie Budget Analyzer!")
        add_count = int(input("How many movies do you want to add? (Enter 0 if none): "))
        for i in range(add count):
            name = input(f"Enter name of movie {i+1}: ")
            budget = int(input(f"Enter budget of '{name}': "))
            movies.append((name, budget))
        total_budget = sum(budget for _, budget in movies)
        average_budget = total_budget / len(movies)
        print(f"\nAverage movie budget: ${average_budget:,.0f}")
```

```
print("\nMovies with budgets higher than average:")
 above_avg_movies = []
 for name, budget in movies:
     if budget > average_budget:
         difference = budget - average_budget
         print(f"- {name}: ${budget:,.0f} (which is ${difference:,.0f} above average
         above_avg_movies.append(name)
 print(f"\n Number of movies above average: {len(above_avg_movies)}")
Welcome to Movie Budget Analyzer!
```

Average movie budget: \$323,350,000

Movies with budgets higher than average:

- Pirates of the Caribbean: On Stranger Tides: \$379,000,000 (which is \$55,650,000 ab ove average)
- Avengers: Age of Ultron: \$365,000,000 (which is \$41,650,000 above average)
- Avengers: Endgame: \$356,000,000 (which is \$32,650,000 above average)
- 2: \$850,000,000 (which is \$526,650,000 above average)
- dhoom 4: \$975,000,000 (which is \$651,650,000 above average)

Number of movies above average: 5