## **Student Marks Management System**

This project allows users to **store**, **update**, **and analyze student marks** using arrays (lists in Python).

## Features:

- Add marks for students
- Update marks
- Calculate average, highest, and lowest marks
- ✓ Display all marks

## **Code Implementation:**

```
python

def display_marks(marks):
    print("Student Marks:", marks)

def add_marks(marks):
    mark = float(input("Enter the new mark: "))
    marks.append(mark)
    print("Mark added successfully!")

def update_mark(marks):
    index = int(input("Enter the student index to update (0-based): "))
    if 0 <= index < len(marks):
        new_mark = float(input("Enter the new mark: "))
        marks[index] = new_mark
        print("Mark updated successfully!")
    else:
```

```
print("Invalid index!")
def calculate statistics(marks):
  if marks:
     print(f"\nAverage Marks: {sum(marks) / len(marks):.2f}")
     print(f"Highest Mark: {max(marks)}")
     print(f"Lowest Mark: {min(marks)}")
  else:
     print("\nNo marks available!")
marks = []
while True:
  print("\n===== Student Marks Management =====")
  print("1. Display Marks")
  print("2. Add Marks")
  print("3. Update Marks")
  print("4. Calculate Statistics")
  print("5. Exit")
  choice = input("Enter your choice: ")
  if choice == '1':
     display_marks(marks)
  elif choice == '2':
     add_marks(marks)
  elif choice == '3':
```

```
update_mark(marks)
elif choice == '4':
    calculate_statistics(marks)
elif choice == '5':
    print("Exiting program. Goodbye!")
    break
else:
    print("Invalid choice! Please enter a valid option.")
```

The **Student Marks Management System** is a simple **Python-based project** that utilizes **arrays** (**lists**) to store and manage student marks. It provides functionalities to **add, update, display, and analyze** student marks efficiently. The system is designed to help teachers or students keep track of marks and perform basic statistical analysis such as calculating the **average, highest, and lowest marks**.

The program runs in a **menu-driven format**, allowing users to interact through command-line inputs. It provides the following functionalities:

- 1. **Display Marks** Shows all stored marks.
- 2. Add Marks Allows the user to add a new student's mark.
- 3. **Update Marks** Enables updating an existing mark.
- Calculate Statistics Computes and displays the average, highest, and lowest marks.
- 5. **Exit** Terminates the program.