

Write a MATLAB program that performs the following tasks:

1. Prompt the user to enter marks for 5 students (out of 100).
2. For each mark:
 - Display the grade using the following scheme:
 - A: 90–100
 - B: 80–89
 - C: 70–79
 - D: 60–69
 - F: Below 60
3. After collecting all marks, display a menu with these options:
 - Show all marks as a bar chart
 - Show average marks
 - Exit
4. Based on the user's choice, perform the action using a switch-case block.
 - Option 1: Plot the marks using a bar chart
 - Option 2: Display the average of the marks
 - Option 3: Exit the program with a thank you message
5. Repeat the menu until the user chooses to exit.

Instructions for Students:

- Use for loop to take input of 5 marks and store them in an array.
- Use if-elseif-else to determine grades.
- After collecting all inputs, use while true loop to display the menu and interact with user.
- Use switch-case for menu handling.
- Use bar() to display bar chart.
- Use mean() to calculate average.