Your turn!

Number	Letter Grade
>= 90	A
>=80, <90	B
>=70, <80	C
>=60, <70	D
<60	F

- 1. Given the grading scale in the table, write a program that displays a student's final letter grade for a course. The user needs to provide their numerical grade so that, for example, if the user provides an 85, the program displays a B grade. If the user has an F, the program displays a message indicating that the student failed the class.

- 2. Write a program that displays the sum of user-provided numbers. The user should be able to provide as many numbers as they like, and when they are done providing numbers, the sum of those numbers needs to be displayed.

```matlab
clear
clc

%Grading scale example

%Get numbers from user
grade=input('What is your grade? ');

%Display grade
if grade>=90
    disp('You earned an A')
elseif (grade>=80 && grade<90)
    disp('You earned a B')
elseif (grade>=70 && grade<80)
    disp('You earned a C')
elseif (grade>=60 && grade<70)
    disp('You earned a D')
else
    disp('You failed the class')
end

%Sum of user provided numbers
%Set summing=0
summing=0;

%Get user-provided numbers, use a loop, set doagain=1
doagain=1;
while (doagain==1)
    user_num=input('Please provide a number: ');
    summing=summing+user_num; %increment summing

    %Check if the user wants to provide another number
    doagain=input('Enter 1 if you would like to enter another number, enter 2 if you are done: ');
end

%Display sum
disp(['The total sum is ',num2str(summing)])
```