

LAB 5

If statements and for loops in MATLAB

In MATLAB, if-else statements are used to execute a set of statements if a certain condition is true, and another set of statements if the condition is false. The general syntax for an if-else statement in MATLAB is as follows:

```
if condition
    % statements to execute if condition is true
else
    % statements to execute if condition is false
End
```

Multiple elseif statements can be used to check for multiple conditions. The general syntax for an if-elseif-else statement in MATLAB is as follows:

```
if condition1
    % statements to execute if condition1 is true
elseif condition2
    % statements to execute if condition2 is true
else
    % statements to execute if both condition1
    % and condition2 are false
End
```