

## MATLAB - if... end Statement

```
a = 10;
% check the condition using if statement
    if a < 20
        % if condition is true then print the following
        fprintf('a is less than 20\n' );
    end
fprintf('value of a is : %d\n', a);

a is less than 20
value of a is : 10
```

## MATLAB - if...else...end Statement

```
a = 100;
% check the boolean condition
    if a < 20
        % if condition is true then print the following
        fprintf('a is less than 20\n' );
    else
        % if condition is false then print the following
        fprintf('a is not less than 20\n' );
    end
fprintf('value of a is : %d\n', a);

a is not less than 20
value of a is : 100
```

## MATLAB - if...elseif...elseif...else...end Statements

```
a = 100;
%check the boolean condition
    if a == 10
        % if condition is true then print the following
        fprintf('Value of a is 10\n' );
    elseif( a == 20 )
        % if else if condition is true
        fprintf('Value of a is 20\n' );
    elseif a == 30
        % if else if condition is true
        fprintf('Value of a is 30\n' );
    else
        % if none of the conditions is true '
        fprintf('None of the values are matching\n');
    fprintf('Exact value of a is: %d\n', a );
end

None of the values are matching
Exact value of a is: 100
```

## MATLAB - The switch Statement

```
grade = 'B';
switch(grade)
case 'A'
    fprintf('Excellent!\n' );
case 'B'
    fprintf('Well done\n' );
case 'C'
    fprintf('Well done\n' );
case 'D'
    fprintf('You passed\n' );
case 'F'
    fprintf('Better try again\n' );
otherwise
    fprintf('Invalid grade\n' );
end
```

***Well done***

```
n = input('Enter a number: ');

switch n
    case -1
        disp('negative one')
    case 0
        disp('zero')
    case 1
        disp('positive one')
    otherwise
        disp('other value')
end
```