
```
%Loops for repetitive computations

x = [1 : 2 : 13];

% "for" allows matlab a matlab sequence of code to be repeated more
  than one

%"for" example
for n = 1: 5
    fprintf('The values of n is now %d\n' , n);
end

%conversion

fprintf('Degrees to Radians \n');
fprintf('Degrees      Radians \n');

%for degrees = 0 : 10 : 360

%

%Exercise
for c = -40 : 5 : 100
    f = (((9/5).*c) + 32);
    fprintf('Celsius Degrees: %d\n', c);
    fprintf('Fahrenheit degree conversion is: %d\n', f);
end

%matrix

for i = 1:1:10
    for j = 1: 1: 10
        %mattalble(i,j) = x;

    end
end

The values of n is now 1
The values of n is now 2
The values of n is now 3
The values of n is now 4
The values of n is now 5
Degrees to Radians
Degrees      Radians
Celsius Degrees: -40
Fahrenheit degree conversion is: -40
Celsius Degrees: -35
Fahrenheit degree conversion is: -31
Celsius Degrees: -30
Fahrenheit degree conversion is: -22
Celsius Degrees: -25
```

Fahrenheit degree conversion is: -13
Celsius Degrees: -20
Fahrenheit degree conversion is: -4
Celsius Degrees: -15
Fahrenheit degree conversion is: 5
Celsius Degrees: -10
Fahrenheit degree conversion is: 14
Celsius Degrees: -5
Fahrenheit degree conversion is: 23
Celsius Degrees: 0
Fahrenheit degree conversion is: 32
Celsius Degrees: 5
Fahrenheit degree conversion is: 41
Celsius Degrees: 10
Fahrenheit degree conversion is: 50
Celsius Degrees: 15
Fahrenheit degree conversion is: 59
Celsius Degrees: 20
Fahrenheit degree conversion is: 68
Celsius Degrees: 25
Fahrenheit degree conversion is: 77
Celsius Degrees: 30
Fahrenheit degree conversion is: 86
Celsius Degrees: 35
Fahrenheit degree conversion is: 95
Celsius Degrees: 40
Fahrenheit degree conversion is: 104
Celsius Degrees: 45
Fahrenheit degree conversion is: 113
Celsius Degrees: 50
Fahrenheit degree conversion is: 122
Celsius Degrees: 55
Fahrenheit degree conversion is: 131
Celsius Degrees: 60
Fahrenheit degree conversion is: 140
Celsius Degrees: 65
Fahrenheit degree conversion is: 149
Celsius Degrees: 70
Fahrenheit degree conversion is: 158
Celsius Degrees: 75
Fahrenheit degree conversion is: 167
Celsius Degrees: 80
Fahrenheit degree conversion is: 176
Celsius Degrees: 85
Fahrenheit degree conversion is: 185
Celsius Degrees: 90
Fahrenheit degree conversion is: 194
Celsius Degrees: 95
Fahrenheit degree conversion is: 203
Celsius Degrees: 100
Fahrenheit degree conversion is: 212

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