

Q1: Given the following Celsius degree $c = [34\ 26\ 18\ 30\ 45\ 57\ 13]$,

Write a Matlab function to convert it to Fahrenheit. Note that $f=365*c$

Q2: Convert the following block of code into while

```
for i = 1:100
    if(~mod(i, 2))
        fprintf('%d is an even number.\n', i);
    else
        fprintf('%d is an odd number.\n', i);
    end
    disp('loop is finished.\n');
end
fprintf('Done:)\n', i);
```

Q3: write a Matlab function swap that takes two numbers to swap them.

Q4: write a Matlab function that takes a vector as an input to swap the vector's first two elements.

Q3: Write a Matlab function that accepts two numbers as its inputs to display only the even numbers that are divisible by 4 between the entered two numbers.

Q4: Write a Matlab function that takes a number and print its factorial

Q5: Write a Matlab function that print all multiples of 3 starting from number 1 through number 50

Q6: write a Matlab function that takes a number as its input to check whether this number is prime or not.

Q7: Write a function called isexist to check the existence of a certain element in a vector

Q8: modify the previous program to return the index (position) of the searched element

Q9:

Modify the previous two functions such that it can works on matrix

Q10:

Write a function called intersection that takes two vectors and returns their intersected values

Q12:

Write a function called difference that takes two vectors v1, v2 and returns the elements that exist in v1 and not in v2 also the elements that exist in v2 but not in v1

Q1: Given the following values of L and H, calculate $p(L|H)$.

Note that: $p(L|H) = n(L, H)/n(H)$

L	H
S	N
S	Y
O	N
O	Y
R	N
O	Y
R	N