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%Name: David George
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%Start of Exercice 2

%Question C)

u = [1;7;3]; v = [-3;0;0]; w=[-4;2;9];

%Question D)
z = u -2*v + w;

%Question E)
m=[u v w];

%Question F)
temp = [-4;12;9];

m=[u v temp];

%Question G)
a =temp;
b = [m(1);m(3)];

%Question H)
multiplication = m([2 3], :);
answer = m(:, [1 2]) * multiplication;

%Question I
t = 1:-0.02:0 ;

%Exercice j

x = [m(:,1); -8];
x = x.';

y = [m(:,1); w];
y = y.';

%Exercice 3- Multi Dimensional Matrix

A = [7 3 1; 5 51 6; 0 1 2];
A(:, :, 2) = [12 1 2; 15 47 3; 3 6 2];
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%Excervist 4 -

%verifying its not a chracter
var_char = '4';
res = var_char + 1;

var_num = str2num(var_char);
res = var_num + 1;

s_a = " The result is : ";
s_b = " pi = 3.1459";
strlength(s_a)
res = strcat ( s_a , s_b );
disp ( res );

strlength(res);
sa = " The result is : ";
sb = " pi = ";
sc = pi;
sc = num2str(sc);
disp(strcat(sa, sb, sc));

%Vectors of strings
a= 'tuesday';
b=' morning';
daysoftheweek =
[ "Monday" "Tuesday" "Wednesday" "Thursday" "Friday" "Saturday" "Sunday"];
daysoftheweek(2) = daysoftheweek(6);
daysoftheweek(6) = "Tuesday";

%Excercise 5-
year = 1999;
q1 = " You are ";
age = 2020 - year ;
q2 = " years old .";
q1 = strcat(q1, " 21 ", q2);

vectorDna = 'CGAATGCCGACTAGCGCAAT';

lengths = numel(vectorDna);
vectorDna(5) = 'C';

ans =

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The result is : pi = 3.1459
The result is : pi = 3.1416

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*Published with MATLAB® R2019b*