EIT, 306387, Gabriel Ćwiek, MAPT 2, lab 7, https://github.com/Astaree/MAPT_2

Ad.: Im working on personal device so out./ might look a bit different than expected

1. Ex. 1:

>> who	os			
Name	e Size	Bytes	Class	Attributes
а	1x1	8	double	
aa	1x1	8	double	
b	1x1	8	double	
bb	1x1	8	double	
С	1×1	2	char	
CC	1×1	8	double	
d	1×1	8	double	
d1	1×1	4	single	
d2	1×1	1	int8	
d3	1×1	1	uint8	
dc	1×1	8	double	
dd	1×1	8	double	
df	1×1	8	double	
dr	1×1	8	double	
ff	1×1	8	double	
gg	1×1	8	double	
ii	1×1	8	double	
>> pwd	d			
ans =				
' (C:\(RODO)\GitHub\M	APT 2\lab7'		
>> ls		_ '		
	Ex_1.m	Ex_2.m Ex	_3.m	
2.	Ex. 2:	<u>—</u>		

Throws errors at lines 26, 39, 50, 72,

- 3. Ex. 3:
 - a. Create 4x4 matrix containing 4 [2x5] matrices. Next we check which way it is larger, which is more rows than columns. After that we iterate over rows 1-10 and selected rows in matrix $K = [4 \ 1 \ 3 \ 5 \ 4]$.
 - b. Error occurs because we didn't assign it any value so compile doesn't know what it is. After fix, added function comparing results, there are no "1" so we know both arrays are "equal"

```
kм 💂 []
```

```
disp(' While loop /Petla while ')
[rows, columns] = size(A)
m=1
while m <= rows
    disp('iterator value:')
    m
    disp('m-th row of the matrix A:')
    A(m,:)
    kM = [kM; A(m,:)]
    m = m + 1;
end
%compare matrices
C = kA~= kM</pre>
```

0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

4. Ex. 4:

a. Generating random matrices A and B:

```
A = randi([0 100],5,5)
B = randi([0 100],5,5)
[sum,dif,detA,detB]=teapot(A,B)
```

b. Creating function that adds, subtracts and calc det of matrix:

```
function [sum, dif,detA,detB] = teapot(A,B)
%TEAPOT Summary of this function goes here
%    Detailed explanation goes here
    sum = A + B;
    dif = A - B;
    detA = det(A);
    detB = det(B);
end
```

c. Output:

