

Zad1

a)

MATLAB R2020a - academic use

Current Folder: C:\Users\asus\Desktop\matlab

Editor - C:\Users\asus\Desktop\matlab\zad1.m

```

1  a=1:10;
2  score=0;
3  for c=(1:length(a))
4      if a(c)%2==0
5          score= score + a(c);
6      end
7  end
8  fprintf('a) wynik sumy el parzystych od %d do %d to %d\n', a(1), a(end), score);
9
10 clear
11

```

Command Window

```

>> zad1
a) wynik sumy el parzystych od 1 do 10 to 55
b) srednia artm wektora -10 -8 -6 -4 -2 2 4 6 8 10 to 0
fx >>

```

Workspace

Name	Value
a	1x11 double
average	0
b	[-10,-8,-6,-4,-2,2,4,6,8,10]
c	11
sum	0
x	10

UTF-8

Ln 1 Col 1

b)

MATLAB R2020a - academic use

Current Folder: C:\Users\asus\Desktop\matlab

Editor - C:\Users\asus\Desktop\matlab\zad1.m

```

12 a=(-10:2:10);
13 sum=0;
14 b=[];
15
16 for c=(1:length(a))
17     if a(c)~=0
18         b(c)=a(c);
19     end
20     if c>1
21         if b(c-1)==0
22             b(c-1)=[];
23         end
24     end
25 end
26
27 if b(end)==0
28     b(end)=[];
29 end
30
31 for x=(1:length(b))
32     sum=sum+b(x);
33 end
34 average=sum/length(b);
35 fprintf('b) srednia artm wektora ');
36 fprintf(' %d',b);
37 fprintf(' to %d\n',average)

```

Command Window

```

a) wynik sumy el parzystych od 1 do 10 to 55
b) srednia artm wektora -10 -8 -6 -4 -2 2 4 6 8 10 to 0
fx >>

```

Workspace

Name	Value
a	1x11 double
average	0
b	[-10,-8,-6,-4,-2,2,4,6,8,10]
c	11
sum	0
x	10

UTF-8

script

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zad2
a)

Current Folder: C:\Users\asus\Desktop\matlab

Editor: C:\Users\asus\Desktop\matlab\zad2.m

```

1 A=rand(5,10);
2 m=max(A);
3 mm=max(m);
4 B=[];
5 [i,j]=size(A);
6 for x1=1:i
7     for x2=1:j
8         B(x1,x2)=A(x1,x2)/mm;
9     end
10 end
11 fprintf('a) unormowana macierz A\n');
12 disp(B)
13
14 clear

```

Command Window

```

>> zad2
a) unormowana macierz A
0.3530 0.2869 0.0761 0.1304 0.1628 0.6043 0.4523 0.8290 0.1071 0.8721
0.8341 0.7601 0.0542 0.5710 0.7974 0.2640 0.0841 0.5404 0.9656 0.0848
0.5875 0.7567 0.5329 0.4712 0.3124 0.6566 0.2299 1.0000 0.0047 0.4013
0.5519 0.3819 0.7822 0.0119 0.5306 0.6919 0.9169 0.0785 0.7779 0.2609
0.9208 0.5700 0.9376 0.3384 0.1663 0.7511 0.1530 0.4444 0.8205 0.8032

b) to nie jest macierz trójkątna górna
fx >>

```

Workspace

Name	Value
A	5x10 double
i	5
j	5
x1	2
x2	1

UTF-8 script Ln 26 Col 34

b)

Current Folder: C:\Users\asus\Desktop\matlab

Editor: C:\Users\asus\Desktop\matlab\zad2.m

```

13 clear
14
15 A=rand(5,5);
16 [i,j]=size(A);
17 for x1=1:i
18     for x2=1:j
19         if x2<x1
20             disp('b) to nie jest macierz trójkątna górna');
21             return;
22         end
23     end
24 end
25 disp('b) to jest macierz trójkątna górna');
26
27
28

```

Command Window

```

>> zad2
a) unormowana macierz A
0.3530 0.2869 0.0761 0.1304 0.1628 0.6043 0.4523 0.8290 0.1071 0.8721
0.8341 0.7601 0.0542 0.5710 0.7974 0.2640 0.0841 0.5404 0.9656 0.0848
0.5875 0.7567 0.5329 0.4712 0.3124 0.6566 0.2299 1.0000 0.0047 0.4013
0.5519 0.3819 0.7822 0.0119 0.5306 0.6919 0.9169 0.0785 0.7779 0.2609
0.9208 0.5700 0.9376 0.3384 0.1663 0.7511 0.1530 0.4444 0.8205 0.8032

b) to nie jest macierz trójkątna górna
fx >>

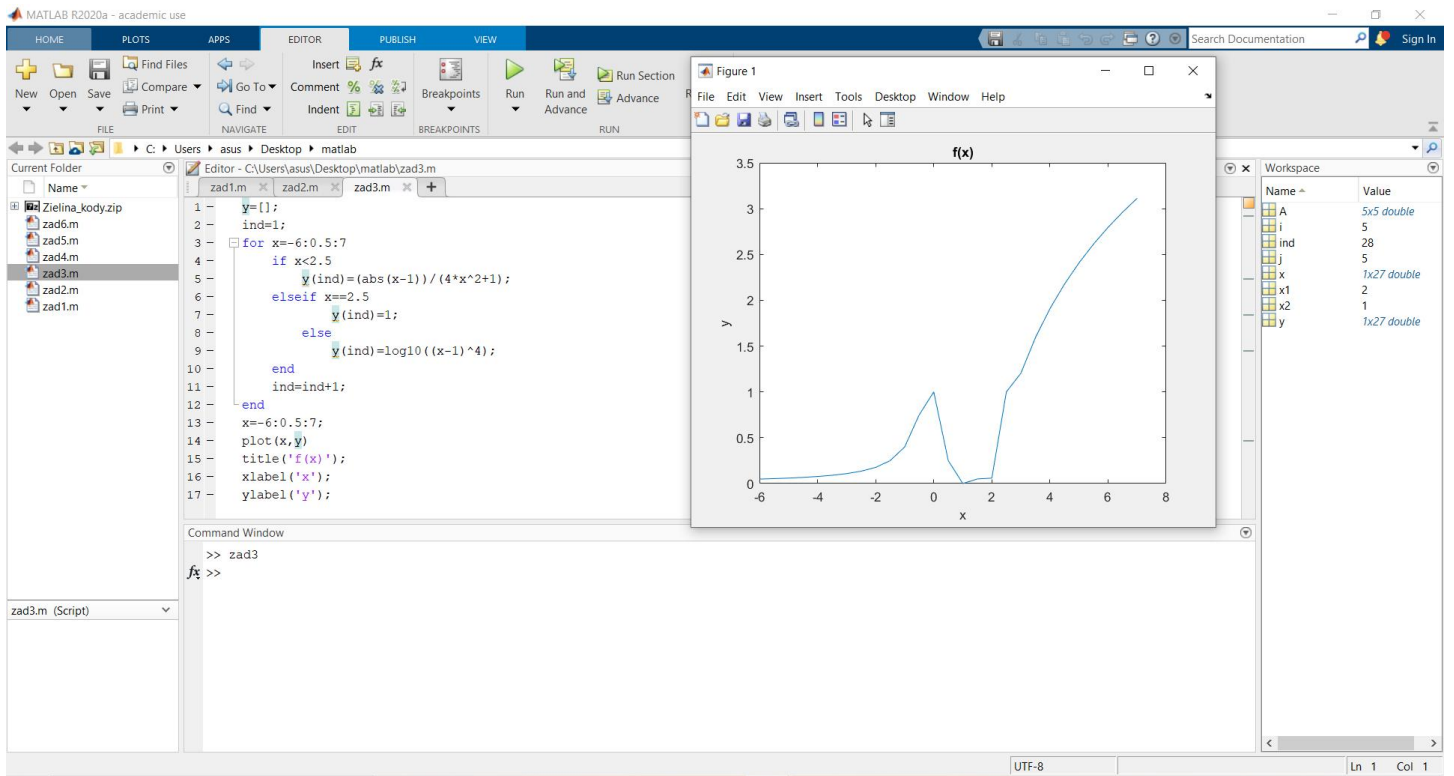
```

Workspace

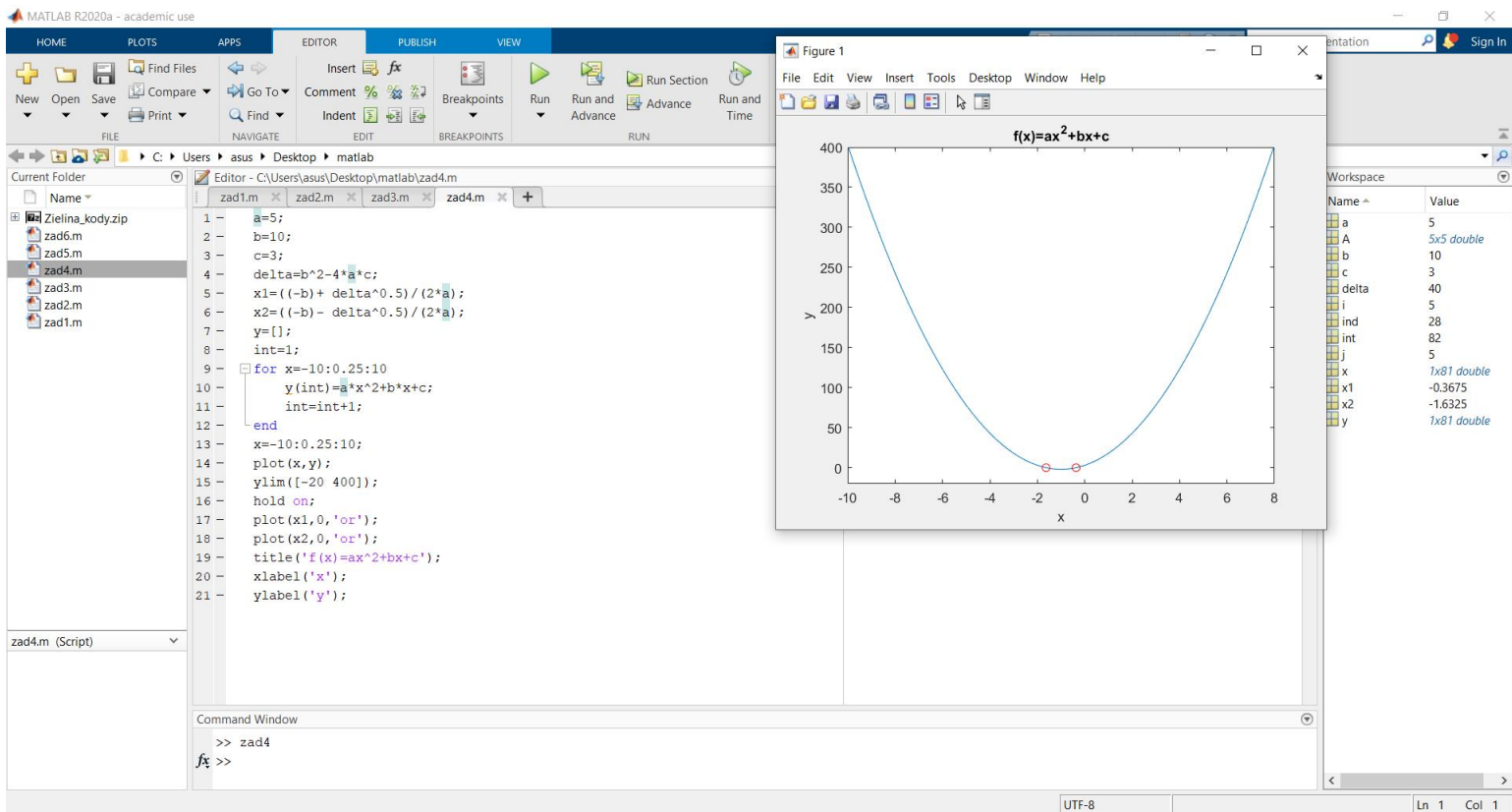
Name	Value
A	5x5 double
i	5
j	5
x1	2
x2	1

UTF-8 script Ln 26 Col 34

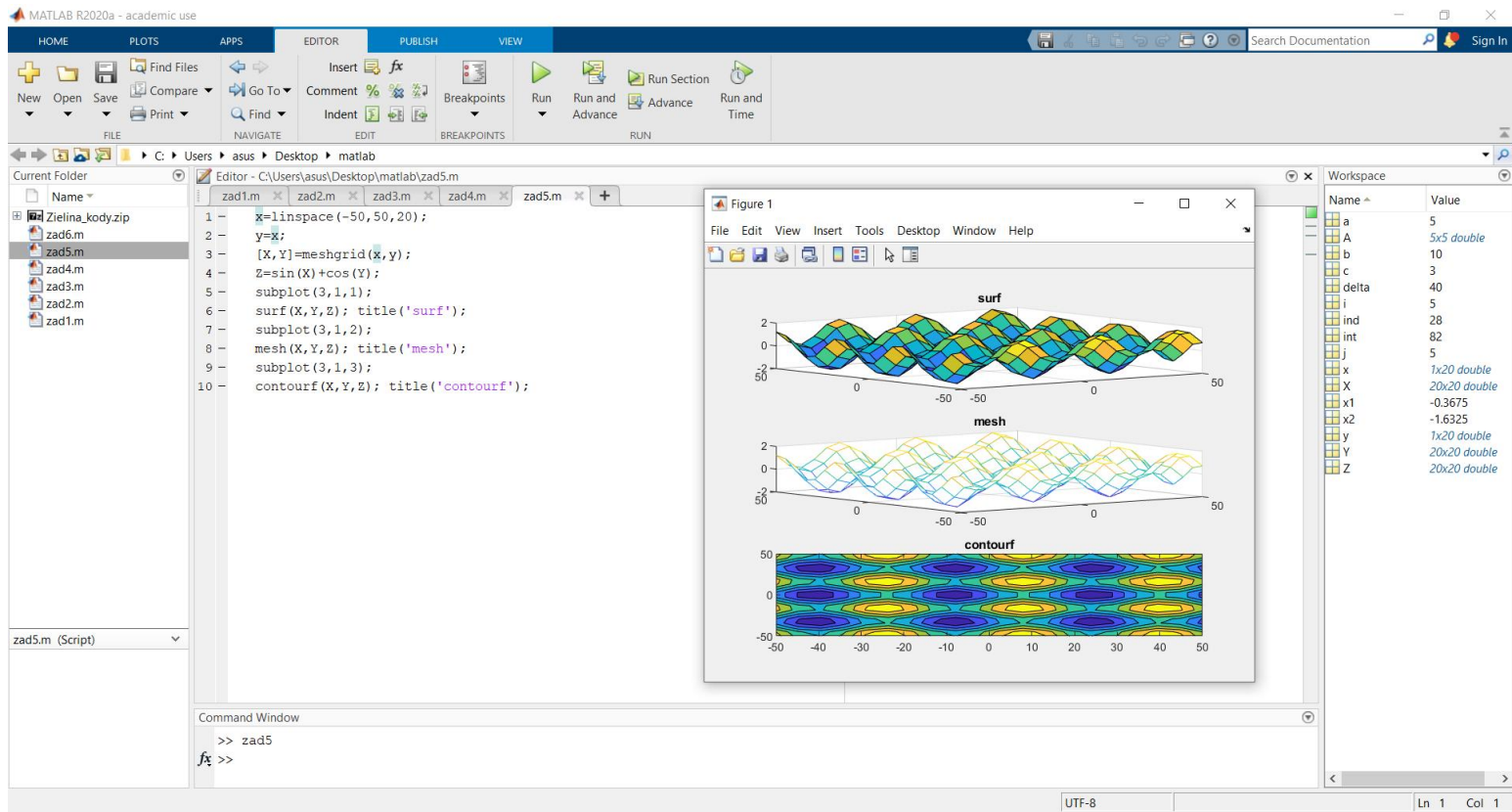
zad3



zad4



zad5



zad6

