Department of Electrical and Computer Engineering

Lab Mid

Course name : CAED

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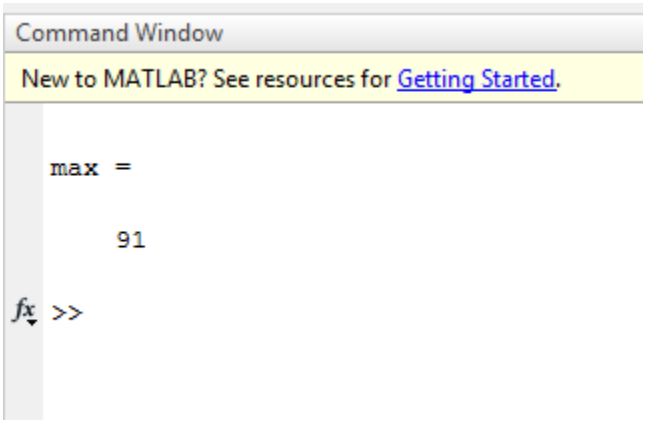
Question 3 :

```
clc
clear all;
a = [2 5 7 9; 3 4 5 0; 8 4 3 1; 77 55 48 91];

max=a(1);
for p=2:numel(a)

  if a(p)>max
   max=a(p);
  end
end

max %the maximum value

min=a(1);
for q=2:numel(a)
  if a(q)<min
   min=a(q);
  end
end
```

Answer:

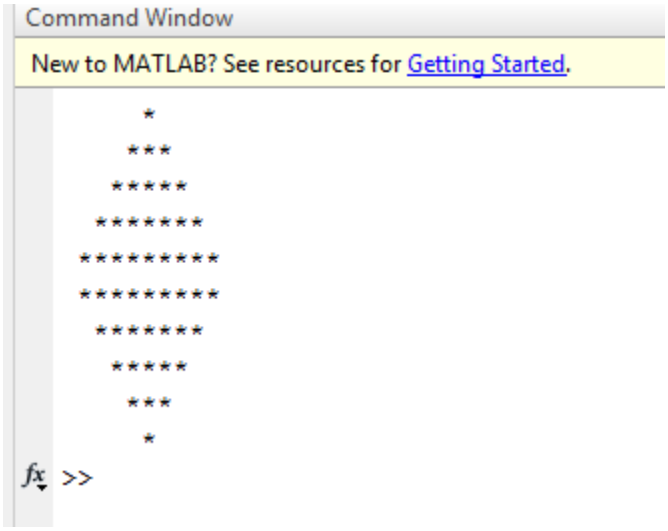


Question 2 :

```
clc
clear all;
for i=1:2:9
    for l=9:-2:i
        fprintf(' ')
    end

    for j=1:i
        fprintf('*')
    end
        fprintf('\n')
end
for i=9:-2:1
    for l=i:2:9
```

```
        fprintf(' ')
    end

    for j=i:-1:1
        fprintf('*')
    end
        fprintf('\n')
end
```

Answer:



Question 4:

```
clc
clear all

a= input ('Enter the population of city A ')
b=input ('Enter the rate of increase ')

c= input ('Enter the population of city B ')
d=input ('Enter the rate of increase ')
count_years=0;
while a < b

  a = a +( a * (b /100) );
  c = c +( c * (d /100) );
    count_years=count_years+1;
end
disp ('count_years')
```

Answer:

Enter the population of city A 12

a =

12

Enter the rate of increase 20

b =

20

Enter the population of city B 12

c =

12

Enter the rate of increase 20

d =

20

count_years

Question 5 :

```
function print_num_pattern(num1,num2)
{
    printf(num1);
    while x!=num1

   if x>0
       x=num2-num1
```

```
        printf(x);
        num2=x;
        num1=num2;
    end
    if x<0
        x=num1+num2;
        printf(x);
        num1=x;
        num2 =num1;
    end

     end


     }
```

Q1 :

```
1 -    clc
2 -    clear all
3
4      %n=input ('Enter Value of n ');
5 -    b=zeros(5,5);
6 -    for i=1:5
7 -     for j=1:i
8 -           matrix(i,j)=j;
9 -     end
10 -   end
11 -       disp(matrix)
```

```
Command Window
     1     0     0     0     0
     1     2     0     0     0
     1     2     3     0     0
     1     2     3     4     0
     1     2     3     4     5

fx >>
```

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