

CAED LAB MID

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DEPARTMENT:COMPUTER ENGINEERING 3-A

Q3:

Source code:

```
end A=[2,5,7,9;3,4,5,0;8,4,3,1;77,55,48,91]
```

```
mx=A(1);
```

```
mn=A(1);
```

```
for p=2:numel(A)
```

```
    if A(p)>mx
```

```
        mx=A(p);
```

```
    disp('Maximum Number in matrix is')
```

```
    mx
```

```
end
```

```
    if A(p)<mn
```

```
        mn=A(p);
```

```
    disp('Minimum Number in matrix is')
```

```
    mn
```

```
end
```

OUTPUT:

```
Minimum Number in matrix is  
  
mn =  
  
    0  
  
Maximum Number in matrix is  
  
mx =  
  
    91  
  
>> |
```

Q2:

CODE:

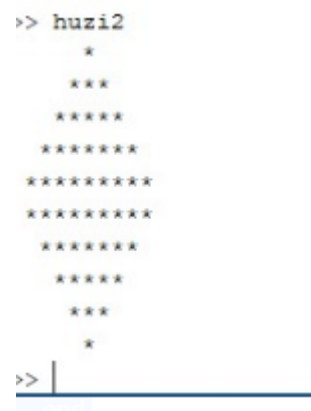
```
or i=1:2:9  
  
    for l=9:-2:i  
  
        fprintf(' ')  
  
    end  
  
  
    for j=1:i  
  
        fprintf('*')  
  
    end  
  
    fprintf('\n')  
  
end  
  
for i=9:-2:1  
  
    for l=i:2:9  
  
        fprintf(' ')  
  
    end
```

```

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

```

output:



```

>> huzi2
      *
     ***
    *****
   *********
  ***********
 *****
*****
 *****
   *****
     ***
      *
>>

```

Q4

Source code:

```
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')
```

output:

```
Enter the population of city A 10000
```

```
A =
```

```
10000
```

```
Enter the rate of increase 10
```

```
roiA =
```

```
10
```

```
Enter the population of city B 5000
```

```
B =
```

```
5000
```

```
Enter the rate of increase 5
```

```
roiB =
```

```
5|
```

Q1:

Code:

```
matrix=zeros(5,5);  
  
for i=1:5  
  
    for j=1:i  
  
        matrix(i,j)=j;  
  
    end
```

```
end
```

```
disp(matrix)
```

output:

```
matrix =  
matrix and size of iteration =  
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  
> |
```

Q5

CODE:

```
num1=0:1:3
```

```
num2=0:1:4
```

```
for a=num1
```

```
for b=num2
```

```
res=ack(a,b)
```

```
end
```

```
end
```

```
function res=ack(num1,num2)
```

```
if num1==0
```

```
res = num2+1;
```

```
elseif num1>0 && num2==0
```

```
res = ack(num1-1,1);
```

```
elseif num1>0 && num2>0  
  
    res = ack(num1-1,ack(num1,num2-1));  
  
end  
  
end
```

output:

output was giving error.

GITHUB LINK AND SCREENSHOT:

<https://github.com/MuhammadHuzaifa1234/huzaifa.git>

