

MATLAB MID



NOVEMBER 19, 2020 MUHAMMAD YASIR

Question No#1:

Code:

```
clc
clear all
%n=input ('Enter Value of n ');
b=zeros(5,5);
for i=1:5
for j=1:i
matrix(i,j)=j;
end
end
disp(matrix)
```

output:

Question No#2:

Code:

```
clc
clear all
for x=1:5
for j=4:-1:x
fprintf(' ');
end
for j=1:x
fprintf(' *');
end
fprintf('\n');
end
for x=1:4
for j=1:x
fprintf(' ');
end
for j=4:-1:x
fprintf(' *');
end
fprintf('\n');
end
```

OUTPUT:

Question No#3:

Code:

```
clc
clear all
A=[2 5 7 9; 3 4 5 0; 8 4 3 1; 77 55 48 91];
MAX = A(1, 1);
for i=1:4
for j=1:4
if MAX \le A(i,j);
MAX=A(i,j);
end
end
end
disp(MAX)
MIN=A(1,1);
for i=1:4
for j=1:4
if MIN > A(i,j);
MIN =A(i,j);
end
end
end
disp(MIN)
```

output:

```
New to MATLAB? See resources for Getting Started.

91

0

fx >> |
```

Question No#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 ');
year=0;
if (a < c && b > d)

while (a < c);

a = ((a / 100) * a) + a; n one year
c= ((c / 100) * c) + c;
year= year+1;
end
end
disp(year)</pre>
```

output:

Command Window

```
New to MATLAB? See resources for Getting Started.
```

```
Enter the population of city A 5000
Enter the rate of increase 10
Enter the population of city B 10000
Enter the rate of increase 15

0

fx >>
```