Week 5---

A.

```
* * * * *
* * * * *
* * * * *
* * * * *
```

```c
#include<stdio.h>

int main(void){

int n;

scanf("%d",&n);

for(int row=1;row<=n;row++){

for(int col=1;col<=n;col++){

    printf("*");

}

printf("\n");

}

}
```

```
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
```

B

```c
#include<stdio.h>

int main(void){

    int n;

    scanf("%d",&n);

    for(int row=1;row<=n;row++){

        for(int col =1; col<=n; col ++){
```

```
            printf("%d",n+1-col);
        }
    printf("\n");
    }
}
```

C

```
 1
 1 2
 1 2 3
 1 2 3 4
```

```c
#include <stdio.h>

int main() {
    int i, j,n;
scanf("%d",&n);
    for (i = 1; i <= n; i++) { // Outer loop for rows (1 to 4)
        for (j = 1; j <= i; j++) { // Inner loop for printing numbers
            printf("%d", j);
        }
        printf("\n"); // Move to the next line after each row
    }

    return 0;
}
```

D

```
 1
 2 2
 3 3 3
 4 4 4 4
```

```c
#include <stdio.h>

int main() {
    int rows = 4; // Define the number of rows for the pattern
    int i, j;

    for (i = 1; i <= rows; i++) { // Outer loop for rows
        for (j = 1; j <= i; j++) { // Inner loop to print the number i
            printf("%d", i);
        }
        printf("\n"); // Move to the next line after each row
    }

    return 0;
}
```

```
  *
  * *
  * * *
  * * * *
e
```

```c
#include<stdio.h>
int main(void){
int n;
scanf("%d",&n);
for(int row=1;row<=n;row++){
for(int col=1;col<=row;col++){
    printf("*");
```

```
    }
printf("\n");

    }

    }
```

```
      A
    A B
   A B C
  A B C D
F
```

```c
#include <stdio.h>

int main() {
    int rows = 3; // Define the number of rows for the pattern
    int i, j, space;

    for (i = 0; i < rows; i++) { // Outer loop for rows
        for (space = 0; space < rows - i - 1; space++) {
            printf(" ");
        }
        // Loop to print characters
        for (j = 0; j <= i; j++) {
            printf("%c", 'A' + j);
        }
        printf("\n"); // Move to the next line after each row
    }   return 0;
}
```