

## **Pattern Programs:**

1.

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

```
#include<stdio.h>
void main(){
    inti,j,n=4;
    for(i=0;i<n;i++){
        for(j=0;j<n;j++){
            printf("*");
        }
        n--;
        printf("\n");
    }
}
```

2.

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

```
#include<stdio.h>
void main(){
    int i,j;
    for(i=1;i<=3;i++){
        for(j=1;j<=3-i;j++){
            printf(" ");
        }
        for(j=1;j<=i;j++){
            printf("* ");
        }
        printf("\n");
    }
    for(i=3-1;i>=1;i--) { //for downward pyramid
        for(j=1;j<=3-i;j++){
            printf(" ");
        }
        for(j=i;j>=1;j--){
            printf("* ");
        }
        printf("\n");
    }
}
```

3.

```
1
121
12321
1234321
#include<stdio.h>
void main(){
    int i,j;
    for(i=1;i<=4;i++){
        for(j=1;j<=4-i;j++){
            printf(" ");
        }
        for(j=1;j<=i;j++){
            printf("%d",j);
        }
        for(j=i-1;j>=1;j--){
```