```
#include <stdio.h>
int main()

int i,j,k,x=1,n=7;
    for(i=0;i<n;i++)
    {
        for(j=0;j<n-i;j++)
        printf(" ");
        for(k=0;k<=i;k++)
        {
        if(k==0 || i==0)
        x=1;
        else
        x = x*(i-k+1)/(k);
        printf("\n");
        }
        printf("\n");
    }
}</pre>
```

```
1 1
1 2 1
1 3 3 1
1 4 6 4 1
1 5 10 10 5 1
1 6 15 20 15 6 1
```

```
//Extra 2. Develop a program to print the transpose of a matrix.
#include<stdio.h>
int main()
4
int n,m,1,j;
printf("Enter number of rows : ");
scanf("%d", &n);
printf("Enter number of columns : ");
scanf("%d",&m);
int arr1[n] [m], arr2[m][n];
printf("Enter matrix : \n");
for(i=0;i<n;i++){
    for(j=0;j<m;j++){
       scanf("%d", &arr1[i][j]);
for(i=0;i<n;i++){
    for(j=0;j<m;j++){
       arr2[j][i]=arr1[i][j];
for(i=0;i<m;i++){
    for(j=0;j<n;j++){
        printf("%2d",arr2[i][j]);
    printf("\n");
```

```
Enter number of rows : 3
Enter number of columns : 3
Enter matrix :
1 2 3
4 5 6
7 8 9
1 4 7
2 5 8
3 6 9
```