## HATFD1035

Print Pascal's Triangle

```
Write a program to generate and print the first n rows of Pascal's triangle without using built-in math
or
```

```
array functions. For n = 5, the output should be:
1
1 1
121
1331
14641
```

## **Solution:**

```
#include <stdio.h>
int main()
  int n,row,i,j,a=1;
  printf("Give the input for number of rows to be displayed: ");
  scanf("%d",&n);
  for(i=0;i<n;i++)
     for(row=1;row<=n-i;row++)
       printf(" ");
     for(j=0;j<=i;j++)
       if (j==0||i==0)
          a=1;
       else
         a=a*(i-j+1)/j;
       printf("% 4d",a);
    printf("\n");
  }
}
```

## **Answers:**

1) Give the input for number of rows to be displayed: 5

2) Give the input for number of rows to be displayed: 3

3) Give the input for number of rows to be displayed: 7