1.
```
*
* *
* * *
* * * *
* * * * *
```
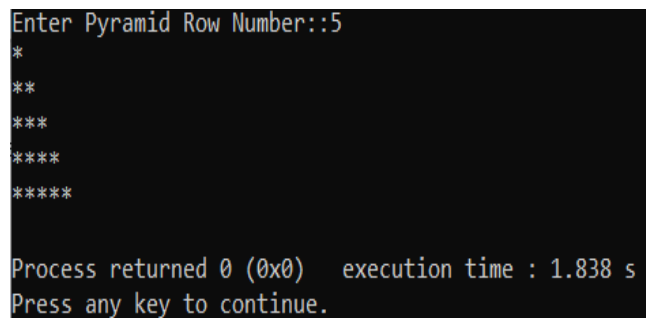
Code::

```c
#include<stdio.h>
int main(){
    int n,i,j;
    printf("Enter Pyramid Row Number::");
    scanf("%d",&n);
    for(i=1;i<=n;i++){
        for(j=i;j>0;j--){
            printf("*");
        }
    printf("\n");
    }
return 0;
}
```

Input/Output::

```
Enter Pyramid Row Number::5
*
**
***
****
*****

Process returned 0 (0x0)   execution time : 1.838 s
Press any key to continue.
```
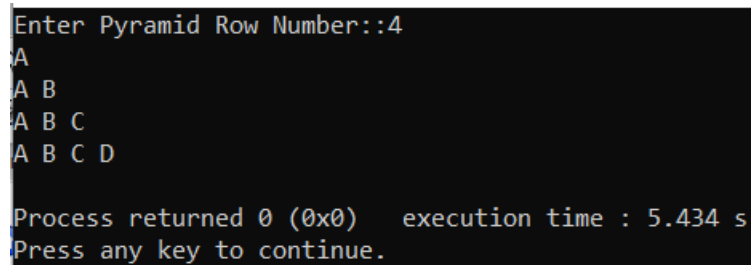
2.
```
A
A B
A B C
```

Code::

```c
#include<stdio.h>
int main(){
int n,i,j;
printf("Enter Pyramid Row Number::");
scanf("%d",&n);
for(i=1;i<=n;i++){
    for(j=1;j<=i;j++){
        printf("%c ",j+64);
    }
    printf("\n");
}
return 0;
}
```

Input/Output::

```
Enter Pyramid Row Number::4
A
A B
A B C
A B C D

Process returned 0 (0x0)   execution time : 5.434 s
Press any key to continue.
```
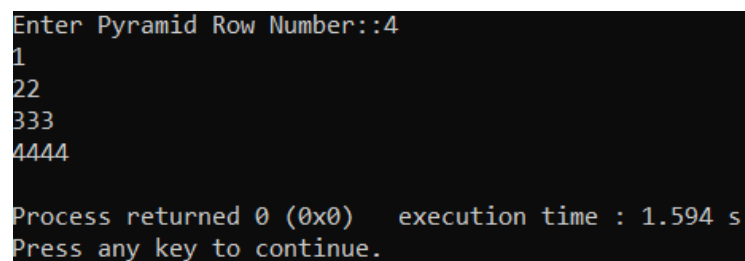
3.
```
1
2 2
3 3 3
4 4 4 4
```

Code::

```c
#include<stdio.h>
int main(){
int n,i,j;
printf("Enter Pyramid Row Number::");
scanf("%d",&n);
for(i=1;i<=n;i++){
    for(j=1;j<=i;j++){
        printf("%d",i);
    }
    printf("\n");
    }
return 0;
}
```

Input/Output::

```
Enter Pyramid Row Number::4
1
22
333
4444

Process returned 0 (0x0)    execution time : 1.594 s
Press any key to continue.
```

4.   1^2+2^2+3^2+4^2+.................N^2

Code::

```c
#include<stdio.h>
#include<math.h>
int main(){
int n,sum=0,i;
printf("Enter Range::");
scanf("%d",&n);
for(i=1;i<=n;i++){
    printf("%d^2+",i);
    sum+=pow(i,2);
 }
printf("\b = %d\n",sum);
return 0;
}
```

Input/Output::

```
Enter Range::5
1^2+2^2+3^2+4^2+5^2 = 55

Process returned 0 (0x0)   execution time : 3.681 s
Press any key to continue.
```

5. **2+4+6+8+.....................Upto N'th Term**

Code::

```c
#include<stdio.h>
int main(){
int n,sum=0,i;
printf("Enter Range::");
scanf("%d",&n);
for(i=2;i<=n;i+=2){
    printf("%d+",i);
    sum+=i;
  }
printf("\b = %d\n",sum);
return 0;
}
```

Input/Output::

```
Enter Range::10
2+4+6+8+10 = 30

Process returned 0 (0x0)   execution time : 2.116 s
Press any key to continue.
```

6.   Write a program in C to create and store information in a text file and Close   it.

Expected Output :

The file test.txt created successfully...!!

Code::

```c
#include<stdio.h>
int main(){
FILE * file;
file=fopen("test.txt","w");
if(file==NULL){
    printf("FIle is not exist!!!!....");
  }
 else{
    printf("The file test.txt created successfully...!!\n");
    fprintf(file,"Md Mitul Hossain");
  }
fclose(file);
return 0;
}
```

Input/Output::

```
The file test.txt created successfully...!!

Process returned 0 (0x0)    execution time : 0.033 s
Press any key to continue.
```

7. **Write a program that read an array and write a file with ascending order.**

Code::

```c
#include<stdio.h>
int main(){
int num[100],i=0,length=1;
FILE * file;
file=fopen("test.txt","a+");
if(file==NULL){
    printf("FIle is not exist!!!!....");
  }
else{
    printf("The file test.txt created successfully...!!\n");
    while(fscanf(file,"%d",&num[i])!=EOF){
              i++;
              length++;
      }
   for(i=0;i<length-1;i++){
      printf("%d ",num[i]);
    }
   for(i=0;i<length-1;i++){
      for(int j=i+1;j<length-1;j++){
          if(num[i]>num[j]){
```

```c
            int temp=num[i];

            num[i]=num[j];

            num[j]=temp;

        }

    }

}

}
fprintf(file,"\n");
for(i=0;i<length-1;i++){
    fprintf(file,"%d ",num[i]);
}
printf("\nFile Value successfully accending....");
fclose(file);
return 0;
}
```

Input/Output::

```
The file test.txt created successfully...!!
2 1 5 6 9 10 3 4 7 8
File Value successfully accending....
Process returned 0 (0x0)   execution time : 0.066 s
Press any key to continue.
```

8. **Write a program that read and display any number of students name roll and marks.**
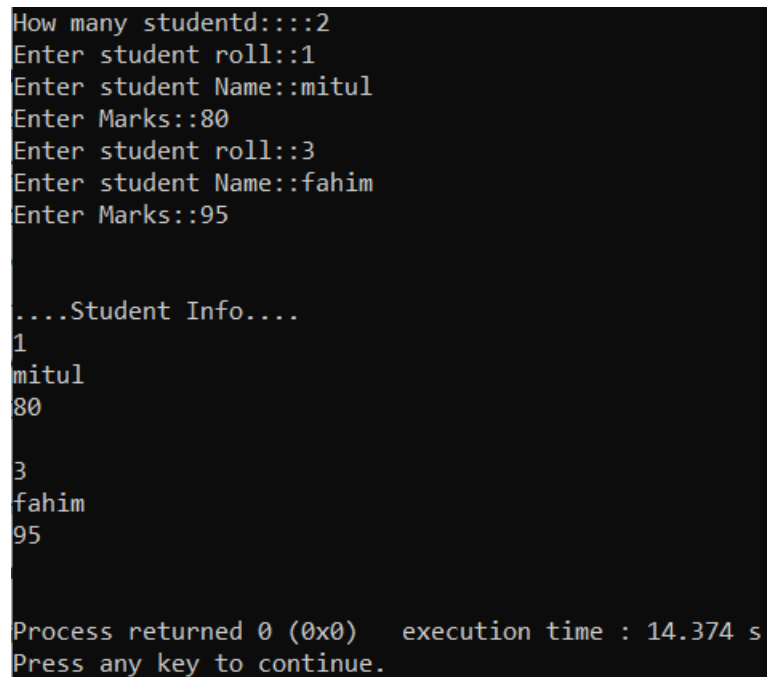
Code::

```c
#include<stdio.h>
struct student{
    int roll,marks;
    char name[20];
}stu[100];
int main(){
    int n;
    printf("How many studentd::::");
    scanf("%d",&n);
    for(int i=0;i<n;i++){
        printf("Enter student roll::");
        scanf("%d",&stu[i].roll);
        printf("Enter student Name::");
        scanf("%s",stu[i].name);
        printf("Enter Marks::");
        scanf("%d",&stu[i].marks);
    }
    printf("\n\n....Student Info....\n");
    for(int i=0;i<n;i++){
        printf("%d\n",stu[i].roll);
```

```c
        printf("%s\n",stu[i].name);

        printf("%d\n",stu[i].marks);

        printf("\n");

    }

  return 0;

    }
```

Input/Output::

```
How many studentd::::2
Enter student roll::1
Enter student Name::mitul
Enter Marks::80
Enter student roll::3
Enter student Name::fahim
Enter Marks::95


....Student Info....
1
mitul
80

3
fahim
95


Process returned 0 (0x0)   execution time : 14.374 s
Press any key to continue.
```