**42. Write a C Program to print half pyramid as using \* as shown in figure below.**

\*

\* \*

\* \* \*

\* \* \* \*

\* \* \* \* \*

#include <stdio.h>

int main()

{

int i,j,rows;

printf("Enter the number of rows: ");

scanf("%d",&rows);

for(i=1;i<=rows;++i)

{

for(j=1;j<=i;++j)

{

printf("\* ");

}

printf("\n");

}

return 0;

}

**43. Write a C Program to print half pyramid as using numbers as shown in figure below.**

1

1 2

1 2 3

1 2 3 4

1 2 3 4 5

#include <stdio.h>

int main()

{

int i,j,rows;

printf("Enter the number of rows: ");

scanf("%d",&rows);

for(i=1;i<=rows;++i)

{

for(j=1;j<=i;++j)

{

printf("%d ",j);

}

printf("\n");

}

return 0;

}

**44. Write a C Program to print triangle of characters as below**

**A**

**B B**

**C C C**

**D D D D**

**E E E E E**

#include<stdio.h>

int main()

{

int i,j;

char input,temp='A';

printf("Enter uppercase character you want in triangle at last row: ");

scanf("%c",&input);

for(i=1;i<=(input-'A'+1);++i)

{

for(j=1;j<=i;++j)

printf("%c",temp);

++temp;

printf("\n");

}

return 0;

}

**45. Write a C Program to print inverted half pyramid using \* as shown below.**

\* \* \* \* \*

\* \* \* \*

\* \* \*

\* \*

\*

#include <stdio.h>

int main()

{

int i,j,rows;

printf("Enter the number of rows: ");

scanf("%d",&rows);

for(i=rows;i>=1;--i)

{

for(j=1;j<=i;++j)

{

printf("\* ");

}

printf("\n");

}

return 0;

}

**46. Write a C Program to print inverted half pyramid as using numbers as shown below.**

**1 2 3 4 5**

**1 2 3 4**

**1 2 3**

**1 2**

**1**

#include <stdio.h>

int main()

{

int i,j,rows;

printf("Enter the number of rows: ");

scanf("%d",&rows);

for(i=rows;i>=1;--i)

{

for(j=1;j<=i;++j)

{

printf("%d ",j);

}

printf("\n");

}

return 0;

}

**47. Write a C program to print pyramid using \*.**

**\***

**\* \* \***

**\* \* \* \* \***

**\* \* \* \* \* \* \***

**\* \* \* \* \* \* \* \* \***

#include <stdio.h>

int main()

{

int i,space,rows,k=0;

printf("Enter the number of rows: ");

scanf("%d",&rows);

for(i=1;i<=rows;++i)

{

for(space=1;space<=rows-i;++space)

{

printf(" ");

}

while(k!=2\*i-1)

{

printf("\* ");

++k;

}

k=0;

printf("\n");

}

return 0;

}

**49. Write a C program to display reverse pyramid**.

\* \* \* \* \* \* \* \* \*

\* \* \* \* \* \* \*

\* \* \* \* \*

\* \* \*

\*

#include<stdio.h>

int main()

{

int rows,i,j,space;

printf("Enter number of rows: ");

scanf("%d",&rows);

for(i=rows;i>=1;--i)

{

for(space=0;space<rows-i;++space)

printf(" ");

for(j=i;j<=2\*i-1;++j)

printf("\* ");

for(j=0;j<i-1;++j)

printf("\* ");

printf("\n");

}

return 0;

}