**WAP String using cross pattern \*\*\*\*\*\*\*\***

**#include<stdio.h>**

**#include<conio.h.**

**#include<string.h>**

**Void main()**

**{**

**Char str[]=”priydarshan”;**

**Int n,I,x,y;**

**X=1;**

**Y=1;**

**Clrscr();**

**n=strlen(str);**

**for(i=0;i<n;i++)**

**{**

**Gotoxy(x,y);**

**Printf(“%c”,str[i]);**

**X++;**

**Y++;**

**}**

**X=n;**

**Y=1;**

**For(i=o;i<n;i++)**

**{**

**Gotoxy(x,y);**

**Printf(“%c”,str[i]);**

**x--;**

**y++;**

**}**

**Getch();**

**}**

**Output will be name with cross pattern**

**WAP TO print position of each elememts in a matrix**

**#include<stdio.h>**

**Main()**

**{**

**Int n,m,I,j;**

**Printf(“ enter the value of m and n”);**

**Scanf(“%d%d”,&m,&n);**

**Printf(“to print matrix locations\n”);**

**For(i=0;i<m;i++)**

**{**

**For(j=0;j<n;j++)**

**{**

**Printf(“%d%d”,I,j);**

**}**

**Printf(“\n”);**

**}**

**}**

**Output will be there**

**0,0,01,02,03,,04,05**

**10,11,12,13,14,15**

**20,21,22,23,24,25**

**According toyour input**

**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;

}

**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;

}

**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;

}

C Program To Display inverted half pyramid using \* and numbers

**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;

}

1 2 3 4 5

1 2 3 4

1 2 3

1 2

1

**Write a C Program to print inverted half pyramid as using numbers 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("%d ",j);

}

printf("\n");

}

return 0;

}

C Program To display the pyramid of \* and digits

**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;

}

**Write a C program to print the pyramid of digits in pattern as below.**

1

2 3 2

3 4 5 4 3

4 5 6 7 6 5 4

5 6 7 8 9 8 7 6 5

#include <stdio.h>

int main()

{

int i,space,rows,k=0,count=0,count1=0;

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

scanf("%d",&rows);

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

{

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

{

printf(" ");

++count;

}

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

{

if (count<=rows-1)

{

printf("%d ",(i+k));

++count;

}

else

{

++count1;

printf("%d ", (i+k-2\*count1));

}

++k;

}

count1=count=k=0;

printf("\n");

}

return 0;

}

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;

}

C Program to Draw Pascal's triangle

1

1 1

1 2 1

1 3 3 1

1 4 6 4 1

1 5 10 10 5 1

#include<stdio.h>

int main()

{

int rows,coef=1,space,i,j;

printf("Enter number of rows: ");

scanf("%d",&rows);

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

{

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

printf(" ");

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

{

if (j==0||i==0)

coef=1;

else

coef=coef\*(i-j+1)/j;

printf("%4d",coef);

}

printf("\n");

}

}

,

C Program to display Floyd's Triangle.

1

2 3

4 5 6

7 8 9 10

#include<stdio.h>

int main()

{

int rows,i,j,k=0;

printf("Enter number of rows: ");

scanf("%d",&rows);

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

{

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

printf("%d ",k+j);

++k;

printf("\n");

}

}