**Example 1: Program to print half pyramid using \***

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

**Source Code**

#include <stdio.h>

int main()

{

int i, j, rows;

printf("Enter number of rows: ");

scanf("%d",&rows);

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

{

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

{

printf("\* ");

}

printf("\n");

}

return 0;

}

**Example 2: Program to print half pyramid a using numbers**

1

1 2

1 2 3

1 2 3 4

1 2 3 4 5

**Source Code**

#include <stdio.h>

int main()

{

int i, j, rows;

printf("Enter 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;

}

**Example 3: Program to print half pyramid using alphabets**

A

B B

C C C

D D D D

E E E E E

**Source Code**

#include <stdio.h>

int main()

{

int i, j;

char input, alphabet = 'A';

printf("Enter the uppercase character you want to print in last row: ");

scanf("%c",&input);

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

{

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

{

printf("%c", alphabet);

}

++alphabet;

printf("\n");

}

return 0;

}

**Example 4: Inverted half pyramid using \***

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**Source Code**

#include <stdio.h>

int main()

{

int i, j, rows;

printf("Enter number of rows: ");

scanf("%d",&rows);

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

{

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

{

printf("\* ");

}

printf("\n");

}

return 0;

}

**Example 5: Inverted half pyramid using numbers**

1 2 3 4 5

1 2 3 4

1 2 3

1 2

1

**Source Code**

#include <stdio.h>

int main()

{

int i, j, rows;

printf("Enter 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;

}

**Example 6: Program to print full pyramid using \***

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\* \* \*

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

**Source Code**

#include <stdio.h>

int main()

{

int i, space, rows, k=0;

printf("Enter number of rows: ");

scanf("%d",&rows);

for(i=1; i<=rows; ++i, k=0)

{

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

{

printf(" ");

}

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

{

printf("\* ");

++k;

}

printf("\n");

}

return 0;

}

**Example 7: Program to print pyramid using numbers**

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

**Source Code**

#include <stdio.h>

int main()

{

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

printf("Enter 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;

}

**Example 8: Inverted full pyramid using \***

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

\* \* \* \* \*

\* \* \*

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**Source Code**

#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;

}

**Example 9: Print Pascal's triangle**

1

1 1

1 2 1

1 3 3 1

1 4 6 4 1

1 5 10 10 5 1

**Source Code**

#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");

}

return 0;

}

**Example 10: Print Floyd's Triangle.**

1

2 3

4 5 6

7 8 9 10

**Source Code**

#include <stdio.h>

int main()

{

int rows, i, j, number= 1;

printf("Enter number of rows: ");

scanf("%d",&rows);

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

{

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

{

printf("%d ", number);

++number;

}

printf("\n");

}

return 0;

}

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#include <stdio.h>

  main()

{

int row, c, n, temp;

printf("Enter the number of rows in pyramid of stars you wish to see ");

scanf("%d",&n);

temp = n;

for ( row = 1 ; row <= n ; row++ )

{

for ( c = 1 ; c < temp ; c++ )

printf(" "); *// space*

temp--;

for ( c = 1 ; c <= 2\*row - 1 ; c++ )

printf("\*");

printf("**\n**");

}

}

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

#include <stdio.h>

int main()

{

int n, c, k;

printf("Enter number of rows**\n**");

scanf("%d",&n);

for ( c = 1 ; c <= n ; c++ )

{

for( k = 1 ; k <= c ; k++ )

printf("\*");

printf("**\n**");

}

return 0;

}

\*

\*A\*

\*A\*A\*

\*A\*A\*A\*

#include<stdio.h>

 int main()

{

int n, c, k, space, count = 1;

  printf("Enter number of rows**\n**");

scanf("%d", &n);

  space = n;

  for (c = 1; c <= n; c++)

{

for (k = 1; k < space; k++)

printf(" ");

  for (k = 1; k <= c; k++)

{

printf("\*");

  if (c > 1 && count < c)

{

printf("A");

count++;

}

} printf("**\n**");

space--;

count = 1;

}

return 0;

}

1

232

34543

4567654

567898765

#include<stdio.h>

 main()

{

int n, c, d, num = 1, space;

scanf("%d",&n);

space = n - 1;

for ( d = 1 ; d <= n ; d++ )

{

num = d;

for ( c = 1 ; c <= space ; c++ )

printf(" ");

space--;

for ( c = 1 ; c <= d ; c++ )

{

printf("%d", num);

num++;

}

num--;

num--;

for ( c = 1 ; c < d ; c++)

{

printf("%d", num);

num--;

}

printf("**\n**");

}

return 0;

}

\*

\*\*\*

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\*

#include <stdio.h>

int main()

{

int n, c, k, space = 1;

printf("Enter number of rows**\n**");

scanf("%d", &n);

space = n - 1;

for (k = 1; k <= n; k++)

{

for (c = 1; c <= space; c++)

printf(" ");

space--;

for (c = 1; c <= 2\*k-1; c++)

printf("\*");

printf("**\n**");

}

space = 1;

for (k = 1; k <= n - 1; k++)

{

for (c = 1; c <= space; c++)

printf(" ");

space++;

for (c = 1 ; c <= 2\*(n-k)-1; c++)

printf("\*");

printf("**\n**");

}

return 0;

}