**Program - 1**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26 | /\*C program to print following Pyramid:  \*  \*\*  \*\*\*  \*\*\*\*  \*\*\*\*\*  \*/    #include<stdio.h>    #define MAX 5    int main()  {      int i,j;        for(i=0; i< MAX; i++)      {          for(j=0;j<=i;j++)          {              printf("\*");          }          printf("\n");      }      return 0;  } |

**Program - 2**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26 | /\*C program to print following Pyramid:  \*\*\*\*\*  \*\*\*\*  \*\*\*  \*\*  \*  \*/    #include<stdio.h>    #define MAX 5    int main()  {      int i,j;        for(i=MAX; i>=0; i--)      {          for(j=0;j<=i;j++)          {              printf("\*");          }          printf("\n");      }      return 0;  } |

**Program - 3**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34 | /\*C program to print following Pyramid:          \*         \* \*        \* \* \*       \* \* \* \*      \* \* \* \* \*  \*/    #include<stdio.h>    #define MAX 5    int main()  {      int i,j;      int space=4;      /\*run loop (parent loop) till number of rows\*/      for(i=0;i< MAX;i++)      {          /\*loop for initially space, before star printing\*/          for(j=0;j< space;j++)          {              printf(" ");          }          for(j=0;j<=i;j++)          {              printf("\* ");          }            printf("\n");          space--;    /\* decrement one space after one row\*/      }      return 0;  } |

**Program - 4**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39  40  41  42  43  44  45  46  47  48  49  50  51  52  53  54  55  56  57 | /\*C program to print following Pyramid:          \*         \* \*        \* \* \*       \* \* \* \*      \* \* \* \* \*      \* \* \* \* \*       \* \* \* \*        \* \* \*         \* \*          \*  \*/    #include<stdio.h>    #define MAX 5    int main()  {      int i,j;      int space=4;      /\*run loop (parent loop) till number of rows\*/      for(i=0;i< MAX;i++)      {          /\*loop for initially space, before star printing\*/          for(j=0;j< space;j++)          {              printf(" ");          }          for(j=0;j<=i;j++)          {              printf("\* ");          }            printf("\n");          space--;      }      /\*repeat it again\*/      space=0;      /\*run loop (parent loop) till number of rows\*/      for(i=MAX;i>0;i--)      {          /\*loop for initially space, before star printing\*/          for(j=0;j< space;j++)          {              printf(" ");          }          for(j=0;j< i;j++)          {              printf("\* ");          }            printf("\n");          space++;      }      return 0;  } |

\*

\* \*

\* \* \*

\* \* \* \*

\* \* \* \* \*

\* \* \* \* \*

\* \* \* \*

\* \* \*

\* \*

\*

**Program - 5**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39 | /\*C program to print following Pyramid:      \*\*\*\*\*\*\*\*\*\*      \*\*\*\*  \*\*\*\*      \*\*\*    \*\*\*      \*\*      \*\*      \*        \*  \*/    #include<stdio.h>    #define MAX 5    int main()  {      int i,j;      int space=0;      /\*run loop (parent loop) till number of rows\*/      for(i=MAX;i>0;i--)      {          /\*print first set of stars\*/          for(j=0;j< i;j++)          {              printf("\*");          }          for(j=0;j< space;j++)          {              printf(" ");          }          /\*print second set of stars\*/          for(j=0;j< i;j++)          {              printf("\*");          }            printf("\n");          space+=2;      }      return 0;  } |

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

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

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

\*\* \*\*

\* \*

**Number Pyramid Programs - Half, Full Incremented and Decrement Series programs**

**Program - 6**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31 | /\*C program to print following Pyramid:          0         01        010       0101      01010  \*/    #include<stdio.h>    int main()  {      int i,j,k;        for(i=0 ; i<=4 ; i++)      {          for(j=4 ; j>i ; j--)              printf(" ");            for(k=0 ; k<=i; k++)          {              if(k%2==0)                  printf("0");              else                  printf("1");          }          printf("\n");      }        return 0;  } |

0

01

010

0101

01010

**Program - 7**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39 | /\*C program to print following Pyramid:      0        0      01      01      010    010      0101  0101      0101001010  \*/    #include<stdio.h>    int main()  {      int i,j,k,l=8,m,n,o,p;      for(i=0; i<=4; i++)      {          for(j=0; j<=i; j++)          {              if(j%2==0)                  printf("0");              else                  printf("1");          }          for(k=1; k<=l; k++)          {              printf(" ");          }              l = l-2;          for(m=0; m<=i; m++)          {              if(m%2==0)              printf("0");              else              printf("1");          }            printf("\n");      }      return 0;  } |

0 0

01 01

010 010

0101 0101

0101001010

 

**Program - 8**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23 | /\*C program to print following Pyramid:      12345      1234      123      12      1  \*/    #include<stdio.h>    int main()  {      int i,j;      for(i=5; i>=1; i--)      {          for(j=1; j<=i; j++)          {              printf("%d", j);          }          printf("\n");      }      return 0;  } |

12345

1234

123

12

1

**Program - 9**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29 | /\*C program to print following Pyramid:          1         123        12345       1234567      123456789  \*/    #include<stdio.h>    int main()  {      int i,j,k,l=1;      for(i=1; i<=5; i++)      {          for(j=4; j>=i; j--)          {              printf(" ");          }            for(k=1; k<=l; k++)          {              printf("%d",k);          }              l = l+2;          printf("\n");      }      return 0;  } |

1

123

12345

1234567

123456789

**Program - 10**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34 | /\*C program to print following Pyramid:      1        1      12      21      123    321      1234  4321      1234554321  \*/    #include<stdio.h>    int main()  {      int i,j,k,l,m=8,n=1;      for(i=1; i<=5; i++)      {          for(j=1; j<=i; j++)          {              printf("%d",j);          }          for(k=m; k>=1; k--)          {              printf(" ");          }              m = m-2;          for(l=n; l>=1; l--)          {              printf("%d",l);          }          n = n+1;          printf("\n");         }           return 0;  } |

1 1

12 21

123 321

1234 4321

1234554321

**Program - 11**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38 | /\*  C program to print following pyramid  123454321   1234321    12321     121      1  \*/    #include <stdio.h>    int main()  {      int i,j;      int space=0;        /\*Run parent loop\*/      for(i=5; i>=1; i--)      {          /\*Print space\*/          for(j=1; j<=space; j++)              printf(" ");              /\*Run loop to print first part of row\*/          for(j=1; j<=i; j++)              printf("%d",j);            /\*Run loop to print second part of row\*/          for(j=i-1; j>=1; j--)              printf("%d",j);            printf("\n");          space++;      }        return 0;  } |

123454321

1234321

12321

121

1

**Characters Pyramid Programs**

**Program - 12**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27 | /\*  C program to print character pyramid as given below:  A  B C  D E F  G H I J  K L M N O  \*/    #include <stdio.h>    int main()  {      int i,j;      char ch='A';        for(i=1;i<=5;i++)      {          for(j=1;j<=i;j++)          {              printf("%c ",ch++);          }          printf("\n");      }        return 0;  } |

A

B C

D E F

G H I J

K L M N O

**Program - 13**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28 | /\*  C program to print character pyramid as given below:  A  B C  D E F  G H I J  K L M N O  \*/    #include <stdio.h>    int main()  {      int i,j;      char ch;        for(i=1;i<=5;i++)      {          ch='A';          for(j=1;j<=i;j++)          {              printf("%c ",ch++);          }          printf("\n");      }        return 0;  } |

A

A B

A B C

A B C D

A B C D E

**Program - 14**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39  40  41  42  43 | /\*  C program to print following character pyramid:  ABCDEDCBA  ABCD DCBA  ABC   CBA  AB     BA  A       A  \*/    #include <stdio.h>    int main()  {      int i,j;      char CH='E';      int space=1;        /\*loop for row\*/      for(i=1; i<=5; i++)      {          /\*first part of the row\*/          for(j='A'; j<=CH; j++)              printf("%c",j);            /\*remove last character of first part of first row\*/          if(i==1)              printf("\b");            /\*spaces between first, second part of the row\*/          for(j=1; j<space; j++)              printf(" ");            /\*second part of the row\*/          for(j=CH; j>='A'; j--)              printf("%c",j);            printf("\n");          CH--;          space++;      }        return 0;  } |

ABCDEDCBA

ABCD DCBA

ABC CBA

AB BA

A A

**Program - 15**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39 | /\*  C program to print following pyramid:      A     BAB    CBABC   DCBABCD  EDCBABCDE  \*/    #include <stdio.h>    int main()  {      int i,j;      char CH='A';      int space=4;        /\*loop for row\*/      for(i=1; i<=5; i++)      {          /\*put space\*/          for(j=1; j<=space; j++)              printf(" ");            /\*first part of the row\*/          for(j=CH; j>='A'; j--)              printf("%c",j);            /\*second part of the row\*/          for(j='B'; j<=CH; j++)              printf("%c",j);            printf("\n");          CH++;          space--;      }        return 0;  } |

A

BAB

CBABC

DCBABCD

EDCBABCDE

**Program - 16**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28 | /\*  C program to print following pyramid  1A2B3C4D5E  1A2B3C4D  1A2B3C  1A2B  1A  \*/    #include <stdio.h>    int main()  {      int i,j,k;        /\*Run parent loop\*/      for(i=5; i>=1; i--)      {          for(j=1, k='A'; j<=i; j++,k++)          {              printf("%d%c",j,k);          }            printf("\n");      }        return 0;  } |

1A2B3C4D5E

1A2B3C4D

1A2B3C

1A2B

1A

**Program - 17**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39 | /\*  C program to print following pyramid      A     ABA    ABCBA   ABCDCBA  ABCDEDCBA  \*/    #include <stdio.h>    int main()  {      int i,j;      int space=4;      char CH='A';        /\*Run parent loop\*/      for(i=1; i<=5; i++)      {          /\*Print space\*/          for(j=1; j<=space; j++)              printf(" ");              /\*Run loop to print first part of row\*/          for(j=1; j<=i; j++)              printf("%c",CH+j-1);            /\*Run loop to print second part of row\*/          for(j=i-1; j>=1; j--)              printf("%c",CH+j-1);            printf("\n");          space--;      }        return 0;  } |

A

ABA

ABCBA

ABCDCBA

ABCDEDCBA