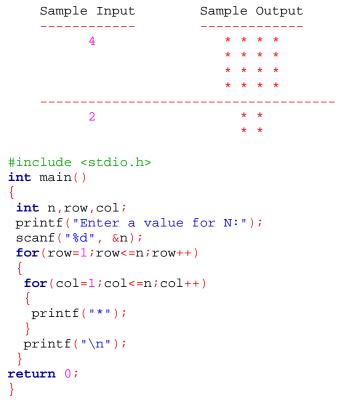
${\tt BOX-1.}$ WAP that will print a pattern based on the input integer n. Please see the sample input output.



BOX-2. WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Input Sample Output
   _____
                       _____
        5
                        1 1 1 1 1
                         2 2 2 2 2
                         3 3 3 3 3
                         4 4 4 4 4
                        5 5 5 5 5
                         1 1
                            2 2
#include <stdio.h>
int main()
int n,row,col;
printf("Enter a value for N:");
scanf("%d", &n);
for(row=1;row<=n;row++)</pre>
 for(col=1;col<=n;col++)</pre>
  printf("%d ", row);
 printf("\n");
return 0;
}
```

BOX-3. WAP that will print a pattern based on the input integer n. Please see the sample input output.

Sample Input Sample Output

```
AAAAA
                         ввввв
                         CCCCC
                         D D D D
                         E E E E
                           ΑA
                            ВВ
#include <stdio.h>
int main()
 int n,row,col;
printf("Enter a value for N:");
 scanf("%d", &n);
 for(row=1;row<=n;row++)</pre>
 for(col=1;col<=n;col++)</pre>
  printf("%c ", row+64);
 printf("\n");
return 0;
BOX-4. WAP that will print a pattern based on the input integer n. Please see the sample
input output.
                      Sample Output
    Sample Input
        5
                         ABCDE
                         ABCDE
                         ABCDE
                         ABCDE
                         ABCDE
         2
                           АВ
                            A B
#include <stdio.h>
int main()
 int n,row,col;
 printf("Enter a value for N:");
 scanf("%d", &n);
 for (row=1;row<=n;row++)</pre>
 for(col=1;col<=n;col++)</pre>
  printf("%c ", col+64);
 printf("\n");
return 0;
BOX-5(a). WAP that will print a pattern based on the input integer n. Please see the
```

sample input output.

// Printing numbers in descending order.

Sample Input	Sample	Output
3	1 2	3
	1 2	3
	1 2	3

```
1 2 3 4 5
                          1 2 3 4 5
                          1 2 3 4 5
                          1 2 3 4 5
#include <stdio.h>
int main()
 int n,row,col;
 printf("Enter a value for N:");
 scanf("%d", &n);
 for(row=1;row<=n;row++)</pre>
  for(col=1;col<=n;col++)</pre>
  printf("%d ", col);
 printf("\n");
return 0;
BOX-5(b). WAP that will print a pattern based on the input integer n. Please see the
sample input output.
       // Printing numbers in ascending order.
    Sample Input
                       Sample Output
        3
                           3 2 1
                           3 2 1
                           3 2 1
         5
                         5 4 3 2 1
                          5 4 3 2 1
                          5 4 3 2 1
                          5 4 3 2 1
                          5 4 3 2 1
#include <stdio.h>
int main()
 int n,row,col;
 printf("Enter a value for N:");
 scanf("%d", &n);
 for(row=1;row<=n;row++)</pre>
  for(col=n;col>=1;col--)
  printf("%d ", col);
  printf("\n");
return 0;
BOX-6. WAP that will print a pattern based on the input integer n. Please see the sample
input output.(Here underscore(_) indicates space.)
       // Printing stars(*) at the odd positions.
                        Sample Output
    Sample Input
    _____
```

Sample Input



```
#include <stdio.h>
int main()
 int n,row,col;
 printf("Enter a value for N:");
 scanf("%d", &n);
 for(row=1;row<=n;row++)</pre>
  for(col=1;col<=n;col++)</pre>
   if(col%2 != 0)
   printf("*");
   else
   printf("_");
  printf("\n");
return 0;
```

BOX-6(a). WAP that will print a pattern based on the input integer n. Please see the sample input output.(Here underscore(_) indicates space.)

// Printing odd numbers at the odd positions in descending order.

```
Sample Output
          3
                         1_3
                         1_3
          5
                         1_3_5
                         1_3_5
                         1_3_5
                          1_3_5
                          1_3_5
#include <stdio.h>
int main()
 int n,row,col;
 printf("Enter a value for N:");
 scanf("%d", &n);
 for(row=1;row<=n;row++)</pre>
  for(col=1;col<=n;col++)</pre>
   if(col%2 != 0)
   printf("%d", col);
   else
   printf("_");
 printf("\n");
return 0;
```

BOX-6(b). WAP that will print a pattern based on the input integer n. Please see the sample input output.

// Printing odd numbers at the odd positions in ascending order.

```
Sample Input
                       Sample Output
                         3_1
                         3_1
                         3_1
                        5_3_1
                         5_3_1
                         5_3_1
                         5_3_1
                         5_3_1
#include <stdio.h>
int main()
 int n,row,col;
 printf("Enter a value for N:");
 scanf("%d", &n);
 for(row=1;row<=n;row++)</pre>
  for(col=n;col>=1;col--)
   if(col%2 != 0)
   printf("%d", col);
   else
   printf("_");
 printf("\n");
return 0;
```

BOX-7. WAP that will print a pattern based on the input integer n. Please see the sample input output.(Here underscore(_) indicates space.)

// Printing stars(*) at the even positions.

Sample Output

Sample Input

```
}
```

BOX-7(a). WAP that will print a pattern based on the input integer n. Please see the sample input output. (Here underscore(_) indicates space.)

// Printing even numbers at the even positions in descending order.

```
Sample Input
                    Sample Output
   _____
                     _____
        3
                     _2_
                     _2_
                     _2_
   _____
                     _2_4_
       5
                     _2_4_
                     _2_4_
                     _2_4_
                     _2_4_
#include <stdio.h>
int main()
int n,row,col;
printf("Enter a value for N:");
scanf("%d", &n);
for(row=1;row<=n;row++)</pre>
 for(col=1;col<=n;col++)</pre>
  if(col%2 == 0)
  printf("%d", col);
  else
  printf("_");
 printf("\n");
return 0;
```

BOX-7(b). WAP that will print a pattern based on the input integer n. Please see the sample input output. (Here underscore(_) indicates space.)

// Printing even numbers at the even positions in ascending order.

```
Sample Input
                  Sample Output
   _____
                       ______
         3
                       _2_
                       _4_2_
                       _4_2_
                       _4_2_
                       _4_2_
                       _4_2_
#include <stdio.h>
int main()
int n,row,col;
printf("Enter a value for N:");
scanf("%d", &n);
for(row=1;row<=n;row++)</pre>
 for(col=n;col>=1;col--)
  if(col%2 == 0)
```

printf("%d",col);

```
else
    printf("_");
}
printf("\n");
}
return 0;
}
```

 ${\tt BOX-8.}$ WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Input
                      Sample Output
   _____
                       _____
                       1 0 1 0 1
                       0 1 0 1 0
                       1 0 1 0 1
                       0 1 0 1 0
                       1 0 1 0 1
        3
                       1 0 1
                       0 1 0
                        1 0 1
#include <stdio.h>
int main()
int n,row,col;
printf("Enter a value for N:");
scanf("%d", &n);
for(row=1;row<=n;row++)</pre>
 for(col=1;col<=n;col++)</pre>
  if(col%2 != 0)
   printf("1 ");
  else
   printf("0 ");
 printf("\n");
return 0;
```

BOX-9. WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
printf("%d ", col);
}
printf("\n");
}
return 0;
}
```

Half Pyramid-1.1: WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Input
                         Sample Output
         3
        5
                         * * *
                         * * * *
                         * * * * *
#include <stdio.h>
int main()
int n,row,col;
 printf("Enter a value for N:");
scanf("%d", &n);
 for(row=1;row<=n;row++)</pre>
  for(col=1;col<=row;col++)</pre>
  printf("* ");
 printf("\n");
return 0;
```

Half Pyramid-1.2(a): WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Input
                       Sample Output
        3
                       1
                      1 2
                      1 2 3
                      1
        4
                       1 2
                       1 2 3
                       1 2 3 4
#include <stdio.h>
int main()
int n,row,col;
printf("Enter a value for N:");
scanf("%d", &n);
```

```
for(row=1;row<=n;row++)
{
  for(col=1;col<=row;col++)
  {
    printf("%d ", col);
  }
  printf("\n");
}
return 0;
}</pre>
```

Half Pyramid-1.2(b): WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Input
                      Sample Output
        3
                       ΑВ
                       авс
        4
                       AВ
                       A B C
                       ABCD
#include <stdio.h>
int main()
int n,row,col;
printf("Enter a value for N:");
scanf("%d", &n);
for(row=1;row<=n;row++)</pre>
 for(col=1;col<=row;col++)</pre>
  printf("%c ", col+64);
 printf("\n");
return 0;
```

Half Pyramid-1.3(a): WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Output
   Sample Input
        3
                       1
                      2 1
                      3 2 1
                      1
                       2 1
                       3 2 1
#include <stdio.h>
int main()
int n,row,col;
printf("Enter a value for N:");
scanf("%d", &n);
for(row=1;row<=n;row++)</pre>
 for(col=row;col>=1;col--)
```

```
printf("%d ", col);
}
printf("\n");
}
return 0;
}
```

Half Pyramid-1.3(b): WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Output
   Sample Input
   _____
       3
                   Α
                    ΒА
                   СВА
   ______
       4
                    ΒА
                    СВА
                    D C B A
#include <stdio.h>
int main()
int n,row,col;
printf("Enter a value for N:");
scanf("%d", &n);
for (row=1;row<=n;row++)</pre>
 for(col=row;col>=1;col--)
  printf("%c ", col+64);
 printf("\n");
return 0;
```

Half Pyramid-1.4(a): WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Output
    Sample Input
         3
                        1
                        2 2
                       3 3 3
         4
                       1
                        3 3 3
#include <stdio.h>
int main()
 int n,row,col;
 printf("Enter a value for N:");
 scanf("%d", &n);
 for(row=1;row<=n;row++)</pre>
 for(col=1;col<=row;col++)</pre>
  printf("%d ", row);
 printf("\n");
```

```
return 0;
```

Half Pyramid-1.4(b): WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Input
                   Sample Output
   _____
                    Α
                    ВВ
                    CCC
   _____
       4
                    Α
                    ВВ
                     CCC
                     D D D D
#include <stdio.h>
int main()
int n,row,col;
printf("Enter a value for N:");
scanf("%d", &n);
for (row=1;row<=n;row++)</pre>
 for(col=1;col<=row;col++)</pre>
  printf("%c ", row+64);
 printf("\n");
return 0;
```

Half Pyramid-1.5(a): WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Input
                 Sample Output
   _____
        3
                      1 0
                    1 0 1
        4
                      1
                       1 0
                       1 0 1
                       1 0 1 0
#include <stdio.h>
int main()
int n,row,col;
printf("Enter a value for N:");
scanf("%d", &n);
for(row=1;row<=n;row++)</pre>
 for(col=1;col<=row;col++)</pre>
  if(col%2 != 0)
  printf("1 ");
  else
  printf("0 ");
 printf("\n");
return 0;
```

Half Pyramid-1.5(b): WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Input Sample Output
                     1
                    0 0
                    1 1 1
   _____
       4
                    1
                    0 0
                     1 1 1
                     0 0 0 0
#include <stdio.h>
int main()
int n,row,col;
printf("Enter a value for N:");
scanf("%d", &n);
for (row=1;row<=n;row++)</pre>
 for(col=1;col<=row;col++)</pre>
  if(row%2 != 0)
  printf("1 ");
  else
  printf("0 ");
 printf("\n");
return 0;
```

Half Pyramid-1.6: WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Input Sample Output
   _____
                      _____
        3
                      1
                      2 4
                     3 6 9
        4
                      1
                      2 4
                      3 6 9
                      4 8 12 16
#include <stdio.h>
int main()
int n,row,col;
printf("Enter a value for N:");
scanf("%d", &n);
for(row=1;row<=n;row++)</pre>
 for(col=1;col<=row;col++)</pre>
  printf("%d ", row*col);
 printf("\n");
return 0;
```

Half Pyramid-1.7(a): WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
// Floyd's Triangle.
```

```
Sample Input
                    Sample Output
        3
                     2 3
                     4 5 6
   _____
                     1
                     2 3
                     4 5 6
                     7 8 9 10
#include <stdio.h>
int main()
int n,row,col,count=0;
printf("Enter a value for N:");
scanf("%d", &n);
for (row=1;row<=n;row++)</pre>
 for(col=1;col<=row;col++)</pre>
  printf("%d ", ++count);
 printf("\n");
return 0;
```

Half Pyramid-1.7(b): WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Input Sample Output
        3
                      Α
                      вС
                     DEF
        4
                      вС
                      DEF
                       GHIJ
#include <stdio.h>
int main()
int n,row,col,count=0;
printf("Enter a value for N:");
scanf("%d", &n);
for(row=1;row<=n;row++)</pre>
 for(col=1;col<=row;col++)</pre>
  printf("%c ", ++count+64);
 printf("\n");
return 0;
}
```

Half Pyramid-1.8: WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
2 3
                        3 4 5
        4
                        1
                        2 3
                        3 4 5
                        4 5 6 7
#include <stdio.h>
int main()
 int n,row,col;
 printf("Enter a value for N:");
 scanf("%d", &n);
 for(row=1;row<=n;row++)</pre>
 for(col=row;col<=row+row-1;col++)</pre>
  printf("%d",col);
 printf("\n");
return 0;
Half Pyramid-1.9: WAP that will print a pattern based on the input integer n. Please see
the sample input output.
    Sample Input
                       Sample Output
    _____
         3
                        3 2
                        3 2 1
        4
                        4
                        4 3
                        4 3 2
                        4 3 2 1
#include <stdio.h>
int main()
 int n,row,col;
 printf("Enter a value for N:");
 scanf("%d", &n);
 for (row=1;row<=n;row++)</pre>
  for(col=n;col>=n-row+1;col--)
  printf("%d",col);
  printf("\n");
return 0;
```

Sample Input

Sample Output

Half Pyramid-2.1: WAP that will print a pattern based on the input integer n. Please see

the sample input output.

Sample Input

Half Pyramid-2.2(a): WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
_____
                      _____
       3
                      1 2 3
                      1 2
                      1
                      1 2 3 4
       4
                      1 2 3
                       1 2
#include <stdio.h>
int main()
int n,row,col;
printf("Enter a value for N:");
scanf("%d", &n);
for(row=n;row>=1;row--)
 for(col=1;col<=row;col++)</pre>
  printf("%d ", col);
 printf("\n");
return 0;
}
```

Sample Output

Half Pyramid-2.2(b): WAP that will print a pattern based on the input integer n. Please see the sample input output.

Sample Input Sample Output

```
авс
                        A B
                       Α
                      ABCD
                       а в с
                       АВ
#include <stdio.h>
int main()
 int n,row,col;
 printf("Enter a value for N:");
 scanf("%d", &n);
 for(row=n;row>=1;row--)
 for(col=1;col<=row;col++)</pre>
  printf("%c ", col+64);
 printf("\n");
return 0;
Half Pyramid-2.3(a): WAP that will print a pattern based on the input integer n. Please
see the sample input output.
    Sample Input
                      Sample Output
       3
                        3 2 1
                        2 1
                        1
        4
                       4 3 2 1
                        3 2 1
                        2 1
#include <stdio.h>
int main()
 int n,row,col,count=0;
 printf("Enter a value for N:");
 scanf("%d", &n);
 for (row=n;row>=1;row--)
 for(col=row;col>=1;col--)
  printf("%d ", col);
 printf("\n");
return 0;
Half\ Pyramid-2.3(b):\ WAP\ that\ will\ print\ a\ pattern\ based\ on\ the\ input\ integer\ n. Please
see the sample input output.
                       Sample Output
    Sample Input
                        _____
    _____
                        СВА
                       вА
```

```
D C B A
                       СВА
                       ΒА
                       Α
#include <stdio.h>
int main()
 int n,row,col,count=0;
 printf("Enter a value for N:");
 scanf("%d", &n);
 for(row=n;row>=1;row--)
 for(col=row;col>=1;col--)
  printf("%c ", col+64);
 printf("\n");
return 0;
Half Pyramid-2.4(a): WAP that will print a pattern based on the input integer n. Please
see the sample input output.
    Sample Input
                       Sample Output
     3
                       3 3 3
                       2 2
                       1
       4
                     4 4 4 4
                       3 3 3
                       2 2
#include <stdio.h>
int main()
 int n,row,col;
 printf("Enter a value for N:");
 scanf("%d", &n);
 for (row=n;row>=1;row--)
 for(col=1;col<=row;col++)</pre>
  printf("%d ", row);
 printf("\n");
return 0;
Half Pyramid-2.4(b): WAP that will print a pattern based on the input integer n. Please
see the sample input output.
    Sample Input
                       Sample Output
                       _____
    _____
       3
                       CCC
                       ВВ
                       Α
```

D D D D C C C B B A

4

```
#include <stdio.h>
int main()
{
  int n,row,col;
  printf("Enter a value for N:");
  scanf("%d", &n);
  for(row=n;row>=1;row--)
  {
    for(col=1;col<=row;col++)
     {
       printf("%c ", row+64);
     }
    printf("\n");
  }
  return 0;
}</pre>
```

Half Pyramid-2.5(a): WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Input
                     Sample Output
     3
                      1 0 1
                      1 0
              1 0 1 0
                      1 0 1
                      1 0
#include <stdio.h>
int main()
int n,row,col;
printf("Enter a value for N:");
scanf("%d", &n);
for(row=n;row>=1;row--)
 for(col=1;col<=row;col++)</pre>
  if(col%2 != 0)
   printf("1 ");
  else
   printf("0 ");
 printf("\n");
return 0;
```

Half Pyramid-2.5(b): WAP that will print a pattern based on the input integer n. Please see the sample input output.

#include <stdio.h>

```
int main()
{
   int n,row,col;
   printf("Enter a value for N:");
   scanf("%d", &n);
   for(row=n;row>=1;row--)
   {
     for(col=1;col<=row;col++)
     {
      if(row%2 != 0)
        printf("1 ");
      else
        printf("0 ");
     }
   printf("\n");
}
return 0;
}</pre>
```

Half Pyramid-2.6: WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Input
                     Sample Output
     3
                      3 6 9
                      2 4
                      1
     4
              4 8 12 16
                      3 6 9
                      2 4
                      1
#include <stdio.h>
int main()
int n,row,col;
printf("Enter a value for N:");
scanf("%d", &n);
for(row=n;row>=1;row--)
 for(col=1;col<=row;col++)</pre>
  printf("%d ", row*col);
 printf("\n");
return 0;
```

Half Pyramid-2.7(a): WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
#include <stdio.h>
int main()
```

```
{
  int n,row,col,count=0;
  printf("Enter a value for N:");
  scanf("%d", &n);
  for(row=n;row>=1;row--)
  {
    for(col=1;col<=row;col++)
     {
       printf("%d ", ++count);
     }
    printf("\n");
  }
  return 0;
}</pre>
```

Half Pyramid-2.7(b): WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Input
                     Sample Output
       3
                      авс
                      DΕ
                     ABCD
                      EFG
                      ΗI
                       J
#include <stdio.h>
int main()
int n,row,col,count=0;
printf("Enter a value for N:");
scanf("%d", &n);
for(row=n;row>=1;row--)
 for(col=1;col<=row;col++)</pre>
  printf("%c ", ++count+64);
 printf("\n");
return 0;
```

Half Pyramid-2.8: WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
for(row=n;row>=1;row--)
{
  for(col=row;col<=row+row-1;col++)
  {
    printf("%d ", col);
  }
  printf("\n");
}
return 0;
}</pre>
```

Half Pyramid-2.9: WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Input
                   Sample Output
       3
                    3 2 1
                     3 2
   _____
                   4 3 2 1
                    4 3 2
                    4 3
#include <stdio.h>
int main()
int n,row,col;
printf("Enter a value for N:");
scanf("%d", &n);
for(row=n;row>=1;row--)
 for(col=n;col>=n-row+1;col--)
  printf("%d ", col);
 printf("\n");
return 0;
```

Half Pyramid-3.1: WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
int n,row,col;
printf("Enter a value for N:");
scanf("%d", &n);
for(row=1;row<=n;row++)
{
  for(col=1;col<=n-row;col++)
  {
    printf(" ");
  }
  for(col=1;col<=row;col++)
  {
    printf("*");
  }
  printf("\n");
}
return 0;
}</pre>
```

Half Pyramid-3.2(a): WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Input
                        Sample Output
       3
                          1
                         12
                        123
       4
                        1
                         12
                        123
                        1234
#include <stdio.h>
int main()
int n,row,col;
printf("Enter a value for N:");
 scanf("%d", &n);
 for(row=1;row<=n;row++)</pre>
 for(col=1;col<=n-row;col++)</pre>
  printf(" ");
 for(col=1;col<=row;col++)</pre>
  printf("%d", col);
 printf("\n");
return 0;
```

Half Pyramid-3.2(b): WAP that will print a pattern based on the input integer n. Please see the sample input output.

Sample Input	Sample Output
3	A
	A B
	АВС
1	7
4	A
	A B
	A B C
	ABCD

```
#include <stdio.h>
int main()
 int n,row,col;
 printf("Enter a value for N:");
 scanf("%d", &n);
 for(row=1;row<=n;row++)</pre>
  for(col=1;col<=n-row;col++)</pre>
  printf(" ");
  for(col=1;col<=row;col++)</pre>
  printf("%c", col+64);
 printf("\n");
return 0;
Half Pyramid-3.3(a): WAP that will print a pattern based on the input integer n. Please
see the sample input output.
    Sample Input
                        Sample Output
     3
                         1
                         2 1
                        3 2 1
                         1
      4
                           2 1
                         3 2 1
                        4 3 2 1
#include <stdio.h>
int main()
 int n,row,col;
 printf("Enter a value for N:");
 scanf("%d", &n);
 for (row=1;row<=n;row++)</pre>
  for(col=1;col<=n-row;col++)</pre>
  printf(" ");
  for(col=row;col>=1;col--)
  printf("%d", col);
 printf("\n");
return 0;
Half\ Pyramid-3.3(b):\ WAP\ that\ will\ print\ a\ pattern\ based\ on\ the\ input\ integer\ n. Please
see the sample input output.
    Sample Input
                      Sample Output
    _____
                        _____
```

3

4

B AC B A

```
B A
C B A
D C B A
```

```
#include <stdio.h>
int main()
{
   int n,row,col;
   printf("Enter a value for N:");
   scanf("%d", &n);
   for(row=1;row<=n;row++)
   {
      for(col=1;col<=n-row;col++)
      {
      printf(" ");
    }
   for(col=row;col>=1;col--)
      {
      printf("%c", col+64);
    }
   printf("\n");
   }
   return 0;
}
```

Half Pyramid-3.4(a): WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Input
                      Sample Output
       3
                        1
    ______
        4
                        3 3 3
                       4 4 4 4
#include <stdio.h>
int main()
int n,row,col;
printf("Enter a value for N:");
scanf("%d", &n);
for(row=1;row<=n;row++)</pre>
 for(col=1;col<=n-row;col++)</pre>
  printf(" ");
 for(col=1;col<=row;col++)</pre>
  printf("%d", row);
 printf("\n");
return 0;
```

Half Pyramid-3.4(b): WAP that will print a pattern based on the input integer n. Please see the sample input output.

Sample Input Sample Output

```
Α
                          ВВ
                         C C C
                             A
          4
                            ВВ
                          CCC
                         D D D D
#include <stdio.h>
int main()
 int n,row,col;
 printf("Enter a value for N:");
 scanf("%d", &n);
 for(row=1;row<=n;row++)</pre>
  for(col=1;col<=n-row;col++)</pre>
  printf(" ");
  for(col=1;col<=row;col++)</pre>
  printf("%c", row+64);
  printf("\n");
return 0;
Half Pyramid-3.5(a): WAP that will print a pattern based on the input integer n. Please
see the sample input output.
    Sample Input
                         Sample Output
         3
                            1
                          1 0
                         1 0 1
                             1
          4
                            1 0
                          1 0 1
                         1 0 1 0
#include <stdio.h>
int main()
 int n,row,col;
 printf("Enter a value for N:");
 scanf("%d", &n);
 for (row=1;row<=n;row++)</pre>
  for(col=1;col<=n-row;col++)</pre>
   printf(" ");
  for(col=1;col<=row;col++)</pre>
   if(col%2 != 0)
   printf("1");
   else
   printf("0");
 printf("\n");
```

return 0;

Half Pyramid-3.5(b): WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Input Sample Output
                        1
                      0 0
                     1 1 1
   _____
       4
                         1
                        0 0
                       1 1 1
                      0 0 0 0
#include <stdio.h>
int main()
int n,row,col;
printf("Enter a value for N:");
scanf("%d", &n);
for (row=1;row<=n;row++)</pre>
 for(col=1;col<=n-row;col++)</pre>
  printf(" ");
 for(col=1;col<=row;col++)</pre>
  if(row%2 != 0)
  printf("1");
  else
   printf("0");
 printf("\n");
return 0;
```

Half Pyramid-3.6: WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Output
    Sample Input
        3
                         1
                        2 4
                       3 6 9
                          1
2 4
                           3 6 9
                       4 8 12 16
#include <stdio.h>
int main()
 int n,row,col;
 printf("Enter a value for N:");
 scanf("%d", &n);
 for(row=1;row<=n;row++)</pre>
  for(col=1;col<=n-row;col++)</pre>
  printf(" ");
```

```
for(col=1;col<=row;col++)</pre>
  printf("%d", row*col);
 printf("\n");
return 0;
Half Pyramid-3.7(a): WAP that will print a pattern based on the input integer n. Please
see the sample input output.
         // Floyd's Triangle.
   Sample Input
                     Sample Output
    _____
                       _____
       3
                        2 3
                       4 5 6
        4
                           1
                           2 3
                         4 5 6
                       7 8 9 10
#include <stdio.h>
int main()
int n,row,col,count=0;
printf("Enter a value for N:");
scanf("%d", &n);
 for(row=1;row<=n;row++)</pre>
 for(col=1;col<=n-row;col++)</pre>
  printf(" ");
  for(col=1;col<=row;col++)</pre>
  printf("%d", ++count);
 printf("\n");
return 0;
Half Pyramid-3.7(b): WAP that will print a pattern based on the input integer n. Please
see the sample input output.
    Sample Input
                       Sample Output
                       _____
                         А
                        вС
                       DEF
                          A
                         вС
                        DEF
                       GHIJ
#include <stdio.h>
int main()
```

int n,row,col,count=0;

for(row=1;row<=n;row++)</pre>

scanf("%d", &n);

printf("Enter a value for N:");

```
{
    for(col=1;col<=n-row;col++)
    {
       printf(" ");
    }
    for(col=1;col<=row;col++)
    {
       printf("%c", ++count+64);
      }
    printf("\n");
    }
return 0;
}</pre>
```

Half Pyramid-3.8: WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Input
                      Sample Output
       3
                           1
                         2 3
                        3 4 5
       4
                           1
                           2 3
                          3 4 5
                        4 5 6 7
#include <stdio.h>
int main()
int n,row,col;
printf("Enter a value for N:");
 scanf("%d", &n);
 for(row=1;row<=n;row++)</pre>
 for(col=1;col<=n-row;col++)</pre>
  printf(" ");
  for(col=row;col<=row+row-1;col++)</pre>
  printf("%d", col);
 printf("\n");
return 0;
```

Half Pyramid-3.9: WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Input Sample Output

3 3 2
3 2 1
4 4 3
4 3 2
4 3 2 1

#include <stdio.h>
int main()

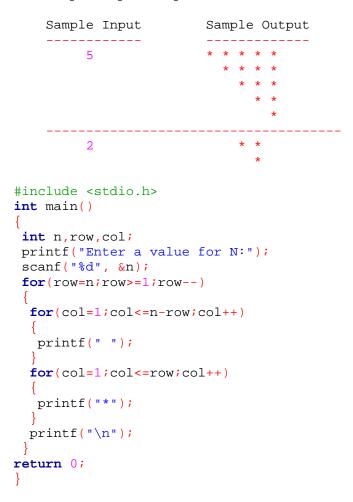
[Sample Output

4 3 2 1

4 4 3 2 1
```

```
int n,row,col;
printf("Enter a value for N:");
scanf("%d", &n);
for(row=1;row<=n;row++)
{
    for(col=1;col<=n-row;col++)
    {
        printf(" ");
    }
    for(col=n;col>=n-row+1;col--)
    {
        printf("%d", col);
    }
    printf("\n");
}
return 0;
}
```

Half Pyramid-4.1: WAP that will print a pattern based on the input integer n. Please see the sample input output.



Half Pyramid-4.2(a): WAP that will print a pattern based on the input integer n. Please see the sample input output.

Sample Input	Sample Output
3	1 2 3
	1 2

```
1
                      1 2 3 4
                        1 2 3
                          1 2
#include <stdio.h>
int main()
 int n,row,col;
printf("Enter a value for N:");
 scanf("%d", &n);
 for(row=n;row>=1;row--)
 for(col=1;col<=n-row;col++)</pre>
  printf(" ");
 for(col=1;col<=row;col++)</pre>
  printf("%d", col);
 printf("\n");
return 0;
Half Pyramid-4.2(b): WAP that will print a pattern based on the input integer n. Please
see the sample input output.
    Sample Input
                      Sample Output
    _____
                       _____
       3
                       A B C
                        AВ
                        A
                       A B C D
        4
                        авс
                           ΑВ
```

```
#include <stdio.h>
int main()
{
   int n,row,col;
   printf("Enter a value for N:");
   scanf("%d", &n);
   for(row=n;row>=1;row--)
   {
      for(col=1;col<=n-row;col++)
      {
       printf(" ");
      }
      for(col=1;col<=row;col++)
      {
       printf("%c", col+64);
      }
      printf("\n");
   }
   return 0;
}</pre>
```

Α

Half Pyramid-4.3(a): WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Input
                       Sample Output
                        3 2 1
                         2 1
        4
                        4 3 2 1
                         3 2 1
                           2 1
                              1
#include <stdio.h>
int main()
 int n,row,col;
 printf("Enter a value for N:");
 scanf("%d", &n);
 for(row=n;row>=1;row--)
  for(col=1;col<=n-row;col++)</pre>
  printf(" ");
  for(col=row;col>=1;col--)
  printf("%d", col);
 printf("\n");
return 0;
see the sample input output.
```

Half Pyramid-4.3(b): WAP that will print a pattern based on the input integer n. Please

```
Sample Input
                      Sample Output
       3
                       СВА
                        вА
        4
                      DCBA
                        СВА
                           ΒА
#include <stdio.h>
int main()
int n,row,col;
printf("Enter a value for N:");
scanf("%d", &n);
for(row=n;row>=1;row--)
 for(col=1;col<=n-row;col++)</pre>
  printf(" ");
 for(col=row;col>=1;col--)
  printf("%c", col+64);
 printf("\n");
return 0;
```

Half Pyramid-4.4(a): WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Input
                     Sample Output
                      3 3 3
                       2 2
   ______
                     4 4 4 4
                       3 3 3
                         2 2
                           1
#include <stdio.h>
int main()
int n,row,col;
printf("Enter a value for N:");
scanf("%d", &n);
for (row=n;row>=1;row--)
 for(col=1;col<=n-row;col++)</pre>
  printf(" ");
 for(col=1;col<=row;col++)</pre>
  printf("%d", row);
 printf("\n");
return 0;
```

Half Pyramid-4.4(b): WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Output
   Sample Input
   _____
                       _____
                       C C C
                        ВВ
                       D D D D
                        CCC
                           ВВ
#include <stdio.h>
int main()
int n,row,col;
printf("Enter a value for N:");
scanf("%d", &n);
for(row=n;row>=1;row--)
 for(col=1;col<=n-row;col++)</pre>
  printf(" ");
 for(col=1;col<=row;col++)</pre>
  printf("%c", row+64);
 printf("\n");
```

```
}
return 0;
}
```

Half Pyramid-4.5(a): WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Input
                    Sample Output
   _____
                     _____
                     1 0 1
                      1 0
                        1
   _____
                    1 0 1 0
                      1 0 1
                        1 0
                           1
#include <stdio.h>
int main()
int n,row,col;
printf("Enter a value for N:");
scanf("%d", &n);
for(row=n;row>=1;row--)
 for(col=1;col<=n-row;col++)</pre>
  printf(" ");
 for(col=1;col<=row;col++)</pre>
  if(col%2 != 0)
  printf("1");
  else
  printf("0");
 printf("\n");
return 0;
```

Half Pyramid-4.5(b): WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
}
for(col=1;col<=row;col++)
{
   if(row%2 != 0)
     printf("1");
   else
     printf("0");
   }
   printf("\n");
}
return 0;
}</pre>
```

Half Pyramid-4.6: WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Input
                       Sample Output
        3
                        3 6 9
                         2 4
                       4 8 12 16
                           3 6 9
                             2 4
#include <stdio.h>
int main()
int n,row,col;
printf("Enter a value for N:");
scanf("%d", &n);
for(row=n;row>=1;row--)
 for(col=1;col<=n-row;col++)</pre>
  printf(" ");
 for(col=1;col<=row;col++)</pre>
  printf("%d", row*col);
 printf("\n");
return 0;
```

Half Pyramid-4.7(a): WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Input

3
1 2 3
4 5
6

4
1 2 3 4
5 6 7
8 9
10
```

```
#include <stdio.h>
int main()
{
  int n,row,col,count=0;
```

```
printf("Enter a value for N:");
scanf("%d", &n);
for(row=n;row>=1;row--)
{
  for(col=1;col<=n-row;col++)
  {
    printf(" ");
  }
  for(col=1;col<=row;col++)
  {
    printf("%d", ++count);
  }
  printf("\n");
}
return 0;
}</pre>
```

Half Pyramid-4.7(b): WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Input
                      Sample Output
      3
                       авс
                        DΕ
                          F
                      A B C D
                        EFG
                           ΗI
                             J
#include <stdio.h>
int main()
int n,row,col,count=0;
printf("Enter a value for N:");
 scanf("%d", &n);
for(row=n;row>=1;row--)
 for(col=1;col<=n-row;col++)</pre>
  printf(" ");
  for(col=1;col<=row;col++)</pre>
  printf("%c", ++count+64);
 printf("\n");
 }
return 0;
```

Half Pyramid-4.8: WAP that will print a pattern based on the input integer n. Please see the sample input output.

Sample Input	Sample Output
3	3 4 5
	2 3
	1
4	4 5 6 7
	3 4 5
	2 3
	1

```
#include <stdio.h>
int main()
 int n,row,col;
 printf("Enter a value for N:");
 scanf("%d", &n);
 for(row=n;row>=1;row--)
  for(col=1;col<=n-row;col++)</pre>
   printf(" ");
  for(col=row;col<=row+row-1;col++)</pre>
  printf("%d", col);
 printf("\n");
return 0;
Half Pyramid-4.9: WAP that will print a pattern based on the input integer n. Please see
the sample input output.
    Sample Input
                         Sample Output
        3
                         3 2 1
                          3 2
                         4 3 2 1
        4
                           4 3 2
                             4 3
#include <stdio.h>
int main()
 int n,row,col;
 printf("Enter a value for N:");
 scanf("%d", &n);
 for (row=n;row>=1;row--)
  for(col=1;col<=n-row;col++)</pre>
   printf(" ");
  for(col=n;col>=n-row+1;col--)
   printf("%d", col);
  printf("\n");
return 0;
```

Pyramid-1. WAP that will print a pattern based on the input integer n. Please see the sample input output.

Sample Input

Sample Output

```
#

***

****

*****

*****

#include <stdio.h>
int main()

{
    int n,row,col;
    printf("Enter a value for N:");
    scanf("%d", &n);
    for(row=1;row<=n;row++)

{
        for(col=1;col<=n-row;col++)
        {
            printf(" ");
        }
        printf("*");
        }
        printf("\n");
    }
    return 0;
}</pre>
```

Pyramid-2(a). WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Input
                         Sample Output
        5
                              1
                             123
                            12345
                           1234567
                          123456789
        3
                              1
                             123
                             12345
#include <stdio.h>
int main()
 int n,row,col;
printf("Enter a value for N:");
scanf("%d", &n);
for(row=1;row<=n;row++)</pre>
 for(col=1;col<=n-row;col++)</pre>
  printf(" ");
  for(col=1;col<=2*row-1;col++)</pre>
  printf("%d", col);
 printf("\n");
return 0;
```

Pyramid-2(b). WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Output
   Sample Input
    _____
                        ______
       5
                             Α
                            ABC
                           ABCDE
                          ABCDEFG
                         ABCDEFGHI
       3
                             Α
                            ABC
                           ABCDE
#include <stdio.h>
int main()
int n,row,col;
printf("Enter a value for N:");
 scanf("%d", &n);
 for (row=1;row<=n;row++)</pre>
 for(col=1;col<=n-row;col++)</pre>
  printf(" ");
 for(col=1;col<=2*row-1;col++)</pre>
  printf("%c", col+64);
 printf("\n");
return 0;
```

Pyramid-3(a). WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Input
                 Sample Output
    _____
        5
                             1
                            222
                            33333
                          4444444
                          55555555
                            1
                            222
                            33333
#include <stdio.h>
int main()
 int n,row,col;
 printf("Enter a value for N:");
 scanf("%d", &n);
 for(row=1;row<=n;row++)</pre>
  for(col=1;col<=n-row;col++)</pre>
  printf(" ");
  for(col=1;col<=2*row-1;col++)</pre>
```

```
{
   printf("%d", row);
}
  printf("\n");
}
return 0;
}
```

Pyramid-3(b). WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Input
                      Sample Output
                        _____
        5
                              Α
                             BBB
                            CCCCC
                           DDDDDDD
                          EEEEEEEE
        3
                            BBB
                            CCCCC
#include <stdio.h>
int main()
 int n,row,col;
printf("Enter a value for N:");
scanf("%d", &n);
 for(row=1;row<=n;row++)</pre>
 for(col=1;col<=n-row;col++)</pre>
  printf(" ");
  for(col=1;col<=2*row-1;col++)</pre>
  printf("%c", row+64);
 printf("\n");
return 0;
```

Reverse Pyramid-1. WAP that will print a pattern based on the input integer n. Please see the sample input output.

#include <stdio.h>

```
int main()
{
   int n,row,col;
   printf("Enter a value for N:");
   scanf("%d", &n);
   for(row=n;row>=1;row--)
   {
     for(col=1;col<=n-row;col++)
      {
        printf(" ");
     }
     for(col=1;col<=2*row-1;col++)
      {
        printf("*");
      }
     printf("\n");
   }
   return 0;
}</pre>
```

Reverse Pyramid-2(a). WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Input
                       Sample Output
      5
                         123456789
                          1234567
                            12345
                             123
                             1
       3
                           12345
                            123
                             1
#include <stdio.h>
int main()
int n,row,col;
printf("Enter a value for N:");
 scanf("%d", &n);
 for (row=n;row>=1;row--)
  for(col=1;col<=n-row;col++)</pre>
  printf(" ");
 for(col=1;col<=2*row-1;col++)</pre>
  printf("%d", col);
 printf("\n");
return 0;
```

Reverse Pyramid-2(b). WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Input

Sample Output

ABCDEFGHI

ABCDEFG

ABCDE

ABC

ABC

ABC
```

```
#include <stdio.h>
int main()
{
   int n,row,col;
   printf("Enter a value for N:");
   scanf("%d", &n);
   for(row=n;row>=1;row--)
   {
      for(col=1;col<=n-row;col++)
      {
      printf(" ");
    }
   for(col=1;col<=2*row-1;col++)
   {
      printf("%c", col+64);
    }
   printf("\n");
   }
   return 0;
}</pre>
```

Reverse Pyramid-3(a). WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Input
                         Sample Output
        5
                           55555555
                            444444
                             33333
                              222
         3
                             33333
                              222
#include <stdio.h>
int main()
 int n,row,col;
 printf("Enter a value for N:");
 scanf("%d", &n);
 for (row=n;row>=1;row--)
  for(col=1;col<=n-row;col++)</pre>
  printf(" ");
  for(col=1;col<=2*row-1;col++)</pre>
  printf("%d", row);
 printf("\n");
return 0;
```

Reverse Pyramid-3(b). WAP that will print a pattern based on the input integer n. Please see the sample input output.

Sample Input Sample Output

```
EEEEEEEE
                           DDDDDDD
                            CCCCC
                             BBB
                             Α
                           CCCCC
                            BBB
                             Α
#include <stdio.h>
int main()
 int n,row,col;
printf("Enter a value for N:");
 scanf("%d", &n);
 for (row=n;row>=1;row--)
 for(col=1;col<=n-row;col++)</pre>
  printf(" ");
 for(col=1;col<=2*row-1;col++)</pre>
  printf("%c", row+64);
 printf("\n");
return 0;
```

Diamond-1. WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
// Print Pyramid
for(row=1;row<=n;row++)
{
    for(col=1;col<=n-row;col++)
    {
        printf(" ");
    }
    for(col=1;col<=2*row-1;col++)
    {
        printf("*");
    }
    printf("\n");
}

// Print Reverse Pyramid
for(row=n-1;row>=1;row--)
    {
        for(col=1;col<=n-row;col++)
        {
            printf(" ");
        }
        for(col=1;col<=2*row-1;col++)
        {
              printf("*");
        }
        printf("\n");
    }

return 0;
}</pre>
```

Diamond-2(a). WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Input
                        Sample Output
    _____
                        _____
                             1
                            123
                           12345
                           1234567
                          123456789
                           1234567
                            12345
                             123
                            123
                            12345
                            123
                              1
#include <stdio.h>
int main()
int n,row,col;
printf("Enter a value for N:");
 scanf("%d", &n);
 // Print Pyramid
 for(row=1;row<=n;row++)</pre>
 for(col=1;col<=n-row;col++)</pre>
  printf(" ");
```

```
for(col=1;col<=2*row-1;col++)
{
    printf("%d", col);
}
printf("\n");
}

// Print Reverse Pyramid
for(row=n-1;row>=1;row--)
{
    for(col=1;col<=n-row;col++)
    {
       printf(" ");
    }
    for(col=1;col<=2*row-1;col++)
    {
       printf("%d", col);
    }
    printf("\n");
}

return 0;
}</pre>
```

Diamond-2(b). WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Input
                         Sample Output
        5
                               Α
                              ABC
                             ABCDE
                             ABCDEFG
                            ABCDEFGHI
                             ABCDEFG
                              ABCDE
                               ABC
                                Α
         3
                               Α
                               ABC
                              ABCDE
                               ABC
                                Α
#include <stdio.h>
int main()
 int n,row,col;
 printf("Enter a value for N:");
 scanf("%d", &n);
 // Print Pyramid
for(row=1;row<=n;row++)</pre>
  for(col=1;col<=n-row;col++)</pre>
  printf(" ");
  for(col=1;col<=2*row-1;col++)</pre>
  printf("%c", col+64);
 printf("\n");
```

Diamond-3(a). WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Input
                        Sample Output
                             1
       5
                             222
                            33333
                            444444
                           55555555
                            4444444
                             33333
                             222
                              1
        3
                              1
                             222
                             33333
                              222
                              1
#include <stdio.h>
int main()
 int n,row,col;
printf("Enter a value for N:");
scanf("%d", &n);
 // Print Pyramid
 for (row=1;row<=n;row++)</pre>
  for(col=1;col<=n-row;col++)</pre>
  printf(" ");
 for(col=1;col<=2*row-1;col++)</pre>
  printf("%d", row);
 printf("\n");
 // Print Reverse Pyramid
 for(row=n-1;row>=1;row--)
 for(col=1;col<=n-row;col++)</pre>
  printf(" ");
```

```
for(col=1;col<=2*row-1;col++)
    {
     printf("%d", row);
    }
    printf("\n");
}</pre>
```

Diamond-3(b). WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
sample input output.
    Sample Input
                         Sample Output
        5
                                Α
                               BBB
                              CCCCC
                             DDDDDDD
                            EEEEEEEE
                             DDDDDDD
                              CCCCC
                              BBB
                               Α
                              BBB
                              CCCCC
                               BBB
                                Α
#include <stdio.h>
int main()
 int n,row,col;
 printf("Enter a value for N:");
 scanf("%d", &n);
 // Print Pyramid
 for(row=1;row<=n;row++)</pre>
  for(col=1;col<=n-row;col++)</pre>
   printf(" ");
  for(col=1;col<=2*row-1;col++)</pre>
   printf("%c", row+64);
  printf("\n");
 // Print Reverse Pyramid
 for(row=n-1;row>=1;row--)
  for(col=1;col<=n-row;col++)</pre>
   printf(" ");
  for(col=1;col<=2*row-1;col++)</pre>
  printf("%c", row+64);
  printf("\n");
```

Mix-1. WAP that will print a pattern based on the input integer n. Please see the sample input output. (Here underscore(_) indicates space.)

```
Sample Output
    Sample Input
                           1____1
12___21
        4
                           123_321
                          1234321
                           1___1
        3
                           12 21
                            12321
#include <stdio.h>
int main()
 int n,row,col;
printf("Enter a value for N:");
scanf("%d", &n);
 for(row=1; row<=n; row++)</pre>
 // Prints first part of pattern
 for(col=1; col<=row && col<n; col++)</pre>
  printf("%d", col);
  // Prints spaces between two parts
  for(col=row*2; col<n*2-1; col++)</pre>
  printf(" ");
  // Prints second part of the pattern
  for(col=row; col>=1; col--)
  printf("%d", col);
 printf("\n");
return 0;
```

Mix-2. WAP that will print a pattern based on the input integer n. Please see the sample input output. (Here underscore(_) indicates space.)

Sample In	put	Sample (Output
5		***	* *
		*	*
		* * * *	* *
		*	*
		* * * *	* *
3		* * *	k
		* *	ł.
		***	k

```
#include <stdio.h>
int main()
 int n, row, col;
 printf("Enter a value for N:");
 scanf("%d",&n);
 for(row=1; row<=n; row++){</pre>
   printf("*");
 printf("\n");
 for(row=1; row<=n/2; row++)</pre>
 printf("*");
   for(col=2; col<n; col++)</pre>
     printf(" ");
    printf("*\n");
   for(col=1; col<=n; col++)</pre>
     printf("*");
  printf("\n");
 return 0;
```

Mix-3. WAP that will print a pattern based on the input integer n. Please see the sample input output. (Here underscore(_) indicates space.)

Sample Input	Sample Output
9	\$ \$\$\$ \$\$\$\$\$ _\$\$\$\$\$\$\$ _\$_\$_\$ _\$_\$\$ _\$\$\$ _\$\$\$ _\$
13	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
<pre>#include <stdio.h> int main() { int row, col, n;</stdio.h></pre>	

scanf("%d", &n); // `n' must be odd

Alphabet-1. WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Input
                        Sample Output
       5
                          Η
                                Н
                          Η
                                  Н
                          ннннн
                          Η
                                  Η
                          Η
                                 Η
        7
                                   Η
                        Η
                        Η
                                    Η
                        Η
                        H H H H H H
                        Н
                        Η
                        Η
                                    Η
#include <stdio.h>
int main()
 int n,row,col;
 printf("Enter a value for N:");
 scanf("%d", &n);
 for(row = 1; row<=n; row++)</pre>
     for (col = 1; col <=n; col++)</pre>
         if(col==1 | col==n | row==n/2+1)
           printf("H");
         else
           printf(" ");
        printf("\n");
return 0;
```

Alphabet-2. WAP that will print a pattern based on the input integer n. Please see the

Alphabet-3. WAP that will print a pattern based on the input integer n. Please see the sample input output.

```
Sample Input
                   Sample Output
   _____
                    ______
                       ZZZZZ
                         Z
                       ZZZZZ
   _____
                       ZZZZZZZ
                         Z
                          Z
                         Z
                        Z
                        Z
                       ZZZZZZZ
#include <stdio.h>
int main()
int n, row, col;
printf("Enter a value for N:");
scanf("%d",&n);
for(row=1; row<=n; row++)</pre>
```

```
for(col=n; col>=1; col--)
{
   if(row==1 || row==n || row==col)
        printf("Z");
   else
        printf(" ");
}
   printf("\n");
}
return 0;
}
```