

```

/*
1. If possible take no of rows from the user
1   2   3   4
2   3   4   5
3   4   5   6
4   5   6   7
*/

#include<stdio.h>
void main() {
    int row,col,ans;
    printf("Enter a number of rows: ");
    scanf("%d", &row);
    printf("Enter a number of cols: ");
    scanf("%d", &col);

    for (int i = 1; i <= row; i++) {
        ans = i;
        for (int j = 1; j <= col; j++) {
            printf("%d ", ans);
            ans++;
        }

        printf("\n");
    }
}

```

```
prasad@prasad:~/Cprogram/5.pattern1$ ./a.out
```

```
Enter a number of rows: 4
```

```
Enter a number of cols: 4
```

```
1 2 3 4
```

```
2 3 4 5
```

```
3 4 5 6
```

```
4 5 6 7
```

```
prasad@prasad:~/Cprogram/5.pattern1$
```

```

1      2      3
a      b      c
1      2      3
a      b      c
*/

#include<stdio.h>
void main() {
    int row,col;

    int num = 1;
    printf("Enter a number of rows: ");
    scanf("%d", &row);
    printf("Enter a number of cols: ");
    scanf("%d", &col);
    for (int i = 1; i <= row; i++) {
        int ch = 97;
        int num = 1;
        for (int j = 1; j <= col; j++) {
            if (i%2==1) {
                printf("%d\t", num);
                num++;
            }else{
                printf("%c\t", ch);
                ch++;
            }
        }
        printf("\n");
    }
    printf("\n");
}

```

```
prasad@prasad:~/Cprogram/5.pattern1$ ./a.out
```

```
Enter a number of rows: 4
```

```
Enter a number of cols: 3
```

```
1 2 3
```

```
a b c
```

```
1 2 3
```

```
a b c
```

```
prasad@prasad:~/Cprogram/5.pattern1$
```

```

/*
If possible take no of rows from the user
1      1      1      1
2      2      2      2
3      3      3      3
4      4      4      4
*/
#include<stdio.h>
void main() {

    int row, col;
    printf("Enter a number of rows: ");
    scanf("%d", &row);
    printf("Enter number of col: ");
    scanf("%d", &col);

    for (int i = 1; i <= row; i++) {
        for (int j = 1; j <= col; j++) {
            printf("%d ", i);
        }
        printf("\n");
    }
}

```

```
prasad@prasad:~/Cprogram/5.pattern1$ ./a.out
```

```
Enter a number of rows: 4
```

```
Enter number of col: 4
```

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

```
prasad@prasad:~/Cprogram/5.pattern1$
```

```

/*
A      B      C
D      E      F
G      H      I
*/
#include<stdio.h>
void main() {
    int row,col, ch = 65;
    printf("Enter a number of rows: ");
    scanf("%d", &row);
    printf("Enter a number of cols: ");
    scanf("%d", &col);
    for (int i = 1; i <= row; i++) {
        for (int j = 1; j <= col; j++){
            printf("%c  ",ch);
            ch++;
        }
        printf("\n");
    }
}

```

```
prasad@prasad:~/Cprogram/5.pattern1$ ./a.out
```

```
Enter a number of rows: 3
```

```
Enter a number of cols: 3
```

```
A B C  
D E F  
G H I
```

```
prasad@prasad:~/Cprogram/5.pattern1$
```



```

/*
A      B      C      D
B      C      D      E
C      D      E      F
D      E      F      G
*/
#include<stdio.h>
void main() {
    int row, col;
    printf("Enter a number of rows: ");
    scanf("%d", &row);
    printf("Enter a number of cols: ");
    scanf("%d", &col);
    for (int i = 1; i <= row; i++) {
        int ch = i+64;
        for (int j = 1; j <= col; j++) {
            printf("%c  ",ch);
            ch++;
        }
        printf("\n");
    }
}

```

```
prasad@prasad:~/Cprogram/5.pattern1$ ./a.out
```

```
Enter a number of rows: 4
```

```
Enter a number of cols: 4
```

```
A B C D  
B C D E  
C D E F  
D E F G
```

```
prasad@prasad:~/Cprogram/5.pattern1$
```

```

/*
$      =      $      =
$      =      $      =
$      =      $      =
$      =      $      =
*/
#include<stdio.h>
void main() {
    int row,col;
    printf("Enter a number of rows: ");
    scanf("%d", &row);
    printf("Enter a number of cols: ");
    scanf("%d", &col);
    for (int i = 1; i <= row; i++) {
        for (int j = 1; j <= col; j++) {
            if (j%2==1) {
                printf("$      ");
            }else{
                printf("=      ");
            }
        }
        printf("\n");
    }
}

```

```

~
~
~
~
~
~

```

```
prasad@prasad:~/Cprogram/5.pattern1$ ./a.out
```

```
Ente a number of rows: 4
```

```
Enter a number of cols: 4
```

```
$   =   $   =  
$   =   $   =  
$   =   $   =  
$   =   $   =
```

```
prasad@prasad:~/Cprogram/5.pattern1$
```

```

/*
1      2      9      4
25     6      49     8
81     10     121    12
169    14     225    16

*/
#include<stdio.h>
void main() {
    int row,col,num = 1;
    printf("Enter a number of rows: ");
    scanf("%d", &row);
    printf("Enter a number of cols: ");
    scanf("%d", &col);
    for (int i = 1; i <= row; i++) {
        for (int j = 1; j <= col; j++) {
            if (j%2==1) {
                printf("%d\t", num*num);
                num++;
            }else{
                printf("%d\t", num);
                num++;
            }
        }
        printf("\n");
    }
}
~
~
~
~
~
~

```

```
prasad@prasad:~/Cprogram/5.pattern1$ ./a.out
```

```
Ente a number of rows: 4
```

```
Enter a number of cols: 4
```

1	2	9	4
25	6	49	8
81	10	121	12
169	14	225	16

```
prasad@prasad:~/Cprogram/5.pattern1$
```

```

/*
1      3      5
7      9      11
13     15     17
*/
#include<stdio.h>
void main() {
    int row,col,num = 1;
    printf("Enter a number of rows: ");
    scanf("%d", &row);
    printf("Enter a number of cols: ");
    scanf("%d", &col);
    for (int i = 1; i <= row; i++) {
        for (int j = 1; j <= col; j++) {
            printf("%d\t",num);
            num = num + 2;
        }
        printf("\n");
    }
}

```

```
prasad@prasad:~/Cprogram/5.pattern1$ ./a.out
```

```
Ente a number of rows: 3
```

```
Enter a number of cols: 3
```

```
1      3      5
7      9      11
13     15     17
```

```
prasad@prasad:~/Cprogram/5.pattern1$
```



```

/*
2      5      10
17     26     37
50     65     82
*/
#include<stdio.h>
void main() {
    int row,col,num = 2,add = 3;
    printf("Enter a number of rows: ");
    scanf("%d", &row);
    printf("Enter a number of cols: ");
    scanf("%d", &col);
    for (int i = 1; i <= row; i++) {
        for (int j = 1; j <= col; j++) {
            printf("%d\t", num );
            num = num + add;
            add = add + 2;
        }
        printf("\n");
    }
}

```

```
prasad@prasad:~/Cprogram/5.pattern1$ ./a.out
```

```
Ente a number of rows: 3
```

```
Enter a number of cols: 3
```

```
2      5      10
```

```
17     26     37
```

```
50     65     82
```

```
prasad@prasad:~/Cprogram/5.pattern1$
```

```

/*
D4      C3      B2      A1
D4      C3      B2      A1
D4      C3      B2      A1
D4      C3      B2      A1
*/
#include<stdio.h>
void main() {
    int row,col;
    printf("Enter a number of rows: ");
    scanf("%d", &row);

    printf("Enter a number of cols: ");
    scanf("%d", &col);
    for (int i = 1; i <= row; i++) {
        int temp = row;

        for (int j = 1; j <= col; j++) {
            printf("%c%d\t", 64+temp,temp);
            temp--;
        }
        printf("\n");
    }
}

```

```
prasad@prasad:~/Cprogram/5.pattern1$ ./a.out
```

```
Ente a number of rows: 4
```

```
Enter a number of cols: 4
```

```
D4      C3      B2      A1
```

```
D4      C3      B2      A1
```

```
D4      C3      B2      A1
```

```
D4      C3      B2      A1
```

```
prasad@prasad:~/Cprogram/5.pattern1$
```