**1.Get the values from the user and store it in 3\*3 matrix. Display the matrix**

Sample Output:  
1 2 3  
4 5 6  
7 8 9

**CODE:**

#include<stdio.h>

void main()

{

int arr[3][3];

int i,j;

printf("\nEnter the values of matrix:\n");

for(i=0;i<3;i++)

{

for(j=0;j<3;j++)

{

printf("Matrix [%d][%d]: ",i,j);

scanf("%d",&arr[i][j]);

}

}

printf("\nMatrix :\n");

for(i=0;i<3;i++)

{

for(j=0;j<3;j++)

{

printf("\t%d",arr[i][j]);

}

printf("\n");

}

}

**2. Write a program to get the output**

Input: a1b10  
Output: abbbbbbbbb

Input: b3c6d15  
Output: bbbccccccddddddddddddddd

**CODE:**

#include<stdio.h>

#include<string.h>

int main()

{

int n,i,j,count=0;

char a[50],ch;

printf("Enter the string:");

scanf("%s",a);

for(i=0;i<strlen(a);i++)

{

if(a[i]>='0'&&a[i]<='9')

{

count=(count\*10)+(a[i]-'0');

}

else if(count>0)

{ count--;

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

{

printf("%c",ch);

}count=0;

}

if(a[i]>'9')

{

ch=a[i];printf("%c",a[i]);

}

if(i==(strlen(a)-1))

{--count;

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

{

printf("%c",ch);

}

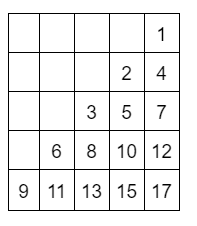
}

}

return 0;

}

**3.Print the pattern without using arrays.**



**CODE:**

#include <stdio.h>

int main() {

int rows;

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

scanf("%d", &rows);

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

int start;

if (i % 2 == 1) {

start = 2\* i -1;

} else {

start = 2\*i;

}

for (int k = 1; k <= rows - i; k++) {

printf(" ");

}

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

printf("%d", start);

start += 2;

if (j < i) {

printf(" ");

}

}

printf("\n");

}

return 0;

}