

Assignment:20

Q.1 Accept number of rows and columns from user and print 'A-Col no.'

Ans.

```
#include<stdio.h>

void Display(int iRows,int iCols)
{
    int iR=0,iC=0;
    for(iR=1;iR<=iRows;iR++)
    {
        char ch='A';
        for(iC=1;iC<=iCols;iC++)
        {
            printf("%c\t",ch);
            ch++;
        }
        printf("\n");
    }
}

int main()
{
    int iRows=0,iCols=0;

    printf("Enter number of rows and columns:\n");
    scanf("%d %d",&iRows,&iCols);

    Display(iRows,iCols);

    return 0;
}
```

OUTPUT:

```
Command Prompt
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 20>Q1.exe
Enter number of rows and columns:
4
4
A      B      C      D
A      B      C      D
A      B      C      D
A      B      C      D
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 20>
```

Q.2 Accept number of rows and columns and print alphabetical pattern depending on rows and columns.

Ans.

```
#include<stdio.h>
#include<ctype.h>

void Display(int iRows,int iCols)
{
    int iR=0,iC=0;
    for(iR=1;iR<=iRows;iR++)
    {
        char ch='A';
        for(iC=1;iC<=iCols;iC++)
        {
            if(iR%2!=0)
            {
                printf("%c\t",toupper(ch));
                ch++;
            }
            else
            {
                printf("%c\t",tolower(ch));
                ch++;
            }
        }
        printf("\n");
    }
}
```

```

}

int main()
{
    int iRows=0,iCols=0;

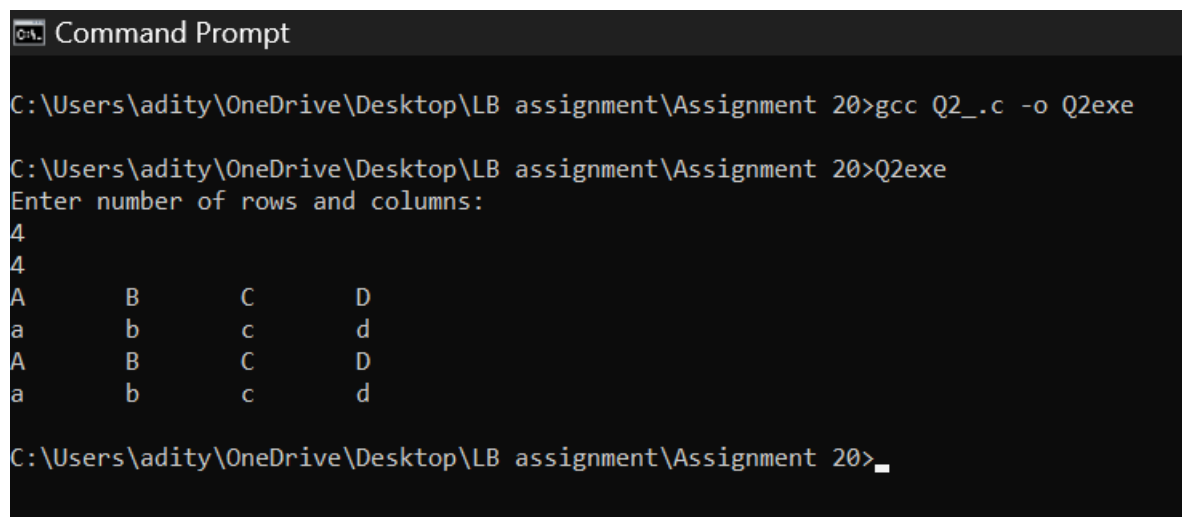
    printf("Enter number of rows and columns:\n");
    scanf("%d %d",&iRows,&iCols);

    Display(iRows,iCols);

    return 0;
}

```

OUTPUT:



```

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 20>gcc Q2_.c -o Q2exe

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 20>Q2exe
Enter number of rows and columns:
4
4
A      B      C      D
a      b      c      d
A      B      C      D
a      b      c      d

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 20>_

```

Q.3 Accept number of rows and columns from user and print alphabetic pattern of alphabets depending on number of row.

Ans.

```

#include<stdio.h>
#include<ctype.h>

void Display(int iRows,int iCols)
{
    int iR=0,iC=0;
    char ch='A';

```

```

        for(iR=1;iR<=iRows;iR++)
        {
            for(iC=1;iC<=iCols;iC++)
            {
                printf("%c\t",ch);
            }
            printf("\n");
            ch++;
        }
    }

int main()
{
    int iRows=0,iCols=0;

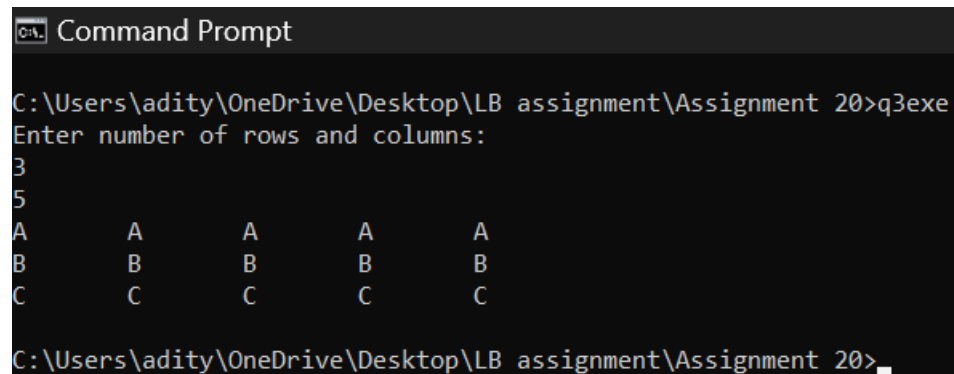
    printf("Enter number of rows and columns:\n");
    scanf("%d %d",&iRows,&iCols);

    Display(iRows,iCols);

    return 0;
}

```

OUTPUT:



```

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 20>q3exe
Enter number of rows and columns:
3
5
A      A      A      A      A
B      B      B      B      B
C      C      C      C      C
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 20>_

```

Q.4 Accept number of rows and columns and print pattern.

Ans.

```
#include<stdio.h>
#include<ctype.h>

void Display(int iRows,int iCols)
{
    int iR=0,iC=0;
    iR=iRows;
    while(iR!=0)
    {
        for(iC=1;iC<=iCols;iC++)
        {
            printf("%d\t",iR);
        }
        printf("\n");

        iR--;
    }
}

int main()
{
    int iRows=0,iCols=0;

    printf("Enter number of rows and columns:\n");
    scanf("%d %d",&iRows,&iCols);

    Display(iRows,iCols);

    return 0;
}
```

OUTPUT:

```
Command Prompt
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 20>Q4.exe
Enter number of rows and columns:
4
5
4      4      4      4      4
3      3      3      3      3
2      2      2      2      2
1      1      1      1      1

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 20>_
```

Q.5 Accept number of rows and columns and print pattern.

Ans.

```
#include<stdio.h>

void Display(int iRows,int iCols)
{
    int iR=0,iC=0,iCount=1;
    for(iR=1;iR<=iRows;iR++)
    {
        for(iC=1;iC<=iCols;iC++)
        {
            printf("%d\t",iCount);
            iCount++;
        }
        printf("\n");
    }
}

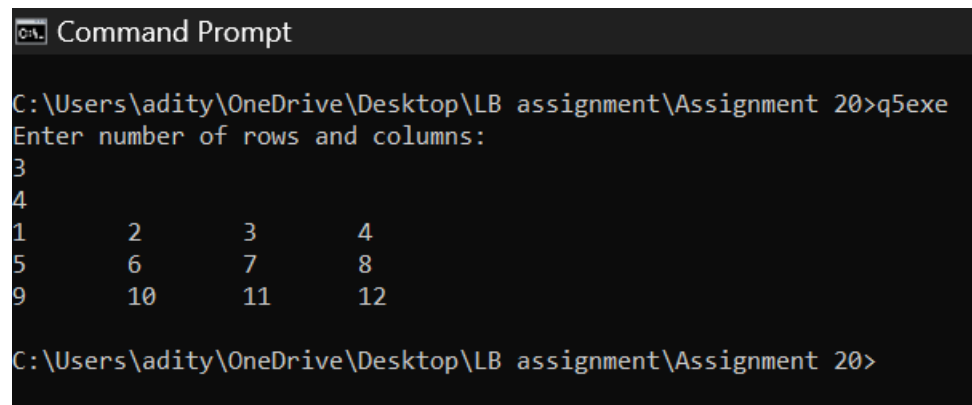
int main()
{
    int iRows=0,iCols=0;

    printf("Enter number of rows and columns:\n");
    scanf("%d %d",&iRows,&iCols);

    Display(iRows,iCols);

    return 0;
}
```

OUTPUT:



```
Command Prompt
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 20>q5exe
Enter number of rows and columns:
3
4
1      2      3      4
5      6      7      8
9      10     11     12

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 20>
```