Assignment:21

Q.1 Accept number of rows and columns and print pattern.

```
#include<stdio.h>
void Display(int iRows,int iCols)
    int iR=0,iC=0,iNo=1;
    for(iR=1;iR<=iRows;iR++)</pre>
        for(iC=1;iC<=iCols;iC++)</pre>
            if(iNo>=10)
                 iNo=1;
            printf("%d\t",iNo);
            iNo++;
        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 21>q1exe
Enter number of rows and columns:
4
4
1 2 3 4
5 6 7 8
9 1 2 3
4 5 6 7
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 21>
```

Q.2 Accept number of rows and columns and display pattern.

OUTPUT:

```
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 21>q2exe
Enter number of rows and columns:
4
5
2     4     6     8     10
1     3     5     7     9
2     4     6     8     10
1     3     5     7     9
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 21>
```

Q.3 Accept number from user and display below pattern.

```
#include<stdio.h>
void Display(int iRows,int iCols)
    int iR=0,iC=0;
    for(iR=1;iR<=iRows;iR++)</pre>
        int iNo=1;
        char ch='a';
        if(iR%2!=0)
            for(iC=1;iC<=iCols;iC++)</pre>
                 printf("%c\t",ch);
                 ch++;
            printf("\n");
        }
        else if(iR%2==0)
            for(iC=1;iC<=iCols;iC++)</pre>
                 printf("%d\t",iNo);
                 iNo++;
            printf("\n");
int main()
    int iRow=0,iCol=0;
    printf("Enter rows and columns to print pattern:\n");
    scanf("%d %d",&iRow,&iCol);
    Display(iRow,iCol);
    return 0;
```

}

OUTPUT:

Q.4 Accept number of rows and col from user print pattern.

```
#include<stdio.h>

void Display(int iRows,int iCols)
{
   int iR=0,iC=0;

   for(iR=1;iR<=iRows;iR++)
   {
      int iNo=1;
      if(iR%2!=0)
      {
        for(iC=1;iC<=iCols;iC++)
            {
            printf("%d\t",iNo);
            iNo++;
            }
            printf("\n");
      }
      else if(iR%2==0)
      {</pre>
```

```
iNo=-iNo;
for(iC=1;iC<=iCols;iC++)
{
    printf("%d\t",iNo);
    iNo--;
}
printf("\n");
}
}

int main()
{
    int iRow=0,iCol=0;
    printf("Enter rows and columns to print pattern:\n");
    scanf("%d %d",&iRow,&iCol);
    Display(iRow,iCol);
    return 0;
}</pre>
```

OUTPUT:

```
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 21>q4exe
Enter rows and columns to print pattern:

5
5
1 2 3 4 5
-1 -2 -3 -4 -5
1 2 3 4 5
-1 -2 3 4 5
-1 2 3 5
-1 -2 3 5
-1 -2 -3 -4 5
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 21>
```

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

Ans.

```
#include<stdio.h>
void Display(int iRows,int iCols)
    int iR=0,iC=0,iNo=0;
    for(iR=1;iR<=iRows;iR++)</pre>
        iNo++;
        for(iC=1;iC<=iCols;iC++)</pre>
            printf("%d\t",iNo);
            iNo++;
        iNo=iNo-iCols;
        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 21>q5exe
Enter number of rows and columns:
4
4
1 2 3 4
2 3 4 5
3 4 5
3 4 5 6
4 5 6 7
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 21>_
```