Assignment No - 6

Q.1 Write a program which accepts number from user and print that number of $ and * on console.

Input - 5

output - $ * $ * $ * $ * $ *

```c
#include<stdio.h>
void Pattern (int iNo)
{   int i = 0;
    if (iNo < 0)
    {  iNo = -iNo;
    }
    for (i=1; i <= iNo; i++)
    {  printf ("$ * \t");
    }
}

int main ()
{  int iValue = 0;
   printf (" Enter number : \n");
   scanf ("%d", & iValue);
   Pattern (iValue);
   return 0;
```

Time Complexity - O(n)   Input 5

                            Iteration Count   O(n)

                                               O(5) = 5

Q2) Write a program which accept number from user and print till that number

Input = 5

Output = 1 2 3 4 5

```c
# include <stdio.h>
void display (int iNo)
{  int i = 0;
   if (iNo < 0)
    { iNo = -iNo};
   }

    for ( i = 1; i <= iNo; i++)
    { printf (" %d \t ", i);
    }

}

int main()
{ int iValue = 0;
   printf("Enter number : \n");
   scanf(" %d ", &iValue);
   display (iValue);
   return 0;
}
```

Time Complexity - O(n)   Input = 5
                              Count = O(5) = 5

Q3). Write a program which accept number from user and print it's number line.

Input = 4

output = -4 -3 -2 -1 0 1 2 3 4

```c
#include<stdio.h>
void display (int iNo)
{
    for (i= -iNo; i<= iNo; i++)
    {   printf ("%d", i);
    }
}

int main ()
{   int iValue = 0;
    printf (" Enter number : \n");
    scanf ("%d", &iValue);
    display (iValue);
    return 0;
}
```

Time Complexity - $O(n)$ Input 4

Count = $O(4)$ = 4

Q4) Write a program which accept numbers from users and print all odd numbers up to that number

Input = 18

Output = 1 3 5 7 9 11 13

```c
                oddDisplay
void           display (int iNo)
{
    int i = 0;
    for ( i=1; i<= iNo; i++)
    {  if ( i%2 != 0)
       { printf ("%d \t ", i);
       }
    }
}
```

```
int main()
{   int iValue = 0;
    printf("Enter number : \n");
    scanf("%d", & iValue);
    addDisplay (iValue);
    return 0;
}
```

Time Complexity - O(n)

Q5) Write a program which accepts numbers from user and print % multiplies of number.

Input = 4

Output = 4 8 12 16 20


```
#include <Stdio.h>
void display (int iNo)
{   int i = 0;
    for (i=1; i<= iNo; i++)
    {   printf ("%d \t", i * iNo);
    }
}

int main()
{   int iValue = 0;
    printf ("Enter number: \n");
    scanf (" %d", & iValue);
    display (iValue);
    return 0;
}
```