Logic Building Assignment : 7

Create separate visual Studio project for each problem statement separately.
Calculate Time Complexity of each program.

1. Write a program which accept number from user and if number is less than 50 then print small , if it is greater than 50 and less than 100 then print medium, if it is greater than 100 then print large.

Input : 75
Output : Medium

```
#include<stdio.h>

void Number(int iNo)
{
    // Logic
}
```

```c
int main()
{
    int iValue = 0;

    printf("Enter number");
    scanf("%d",&iValue);

    Number(iValue);

    return 0;
}
```

2. Accept single digit number from user and print it into word.

Input : 9
Output : Nine

Input : -3
Output : Three

Input : 12
Output : Invalid Number

#include<stdio.h>

```c
void Display(int iNo)
{
    // Logic
}

int main()
{
    int iValue = 0;

    printf("Enter number");
    scanf("%d",&iValue);

    Display(iValue);

    return 0;
}
```

3.Write a program to find factorial of given number.

```
Input :      5
Output :     120         (5 * 4 * 3 * 2 * 1)

Input :      -5
Output :     120         (5 * 4 * 3 * 2 * 1)

Input :      4
Output :     24          (4 * 3 * 2 * 1)
```

```c
#include<stdio.h>

int Factorial(int iNo)
{
    // Logic
}

int main()
{
    int iValue = 0,iRet = 0;

    printf("Enter number");
    scanf("%d",&iValue);

    iRet = Factorial(iValue);

    printf("Factorial of number is %d",iRet);

    return 0;
```

```
}
```

4.Write a program which accept number from user and display its table.

```
Input :     2
Output :    2    4    6    8    10   12   14   16   18   20

Input :     5
Output :    5    10   15   20   25   30   35   40   45   50

Input :     -5
Output :    5    10   15   20   25   30   35   40   45   50
```

```c
#include<stdio.h>

void Table(int iNo)
{
    // Logic
}

int main()
{
    int iValue = 0;

    printf("Enter number");
    scanf("%d",&iValue);

    Table(iValue);

    return 0;
}
```

5. Write a program which accept number from user and display its table in reverse order.

```
Input :     2
Output :    20   18   16   14   12   10   8    6    4    2

Input :     5
Output :    50   45   40   35   30   25   20   15   10   5

Input :     -5
Output :    50   45   40   35   30   25   20   15   10   5
```

```c
#include<stdio.h>

void TableRev(int iNo)
```

```c
{
    // Logic
}

int main()
{
    int iValue = 0;

    printf("Enter number");
    scanf("%d",&iValue);

    TableRev(iValue);

    return 0;
}
```