

Logic Building Assignment : 8

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
}
```

```
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>
```

```
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)

```
#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

```
#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

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

```
void TableRev(int iNo)
```

```
{  
    // Logic  
}  
  
int main()  
{  
    int iValue = 0;  
  
    printf("Enter number");  
    scanf("%d",&iValue);  
  
    TableRev(iValue);  
  
    return 0;  
}
```

