

Logic Building Assignment: 7**Complete Below Code Snippets**

Write separate application program in separate file and execute it practically.

Write each program in the class notebook with description.

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

2. Accept single digit 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:\n");
    scanf("%d",&iValue);
    display(iValue);
    return 0;
}
```

3. Write a program to find the 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:\n");
    scanf("%d",&iValue);
    iRet = Factorial(iValue);
    printf("Factorial of number is %d",iRet);
    return 0;
}
```

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

Input: 2

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

Input: -2

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

```
#include<stdio.h>
int printTable(int iNo)
{
    //logic
}
int main()
{
    int iValue = 0;
    printf("Enter number:\n");
    scanf("%d",&iValue);
    printTable(iValue);
    return 0;
}
```

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

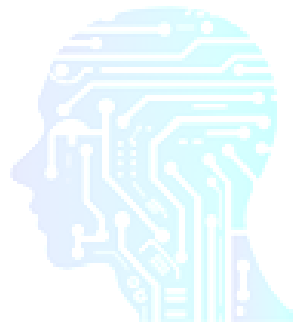
Input: 2

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

Input: -2

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

```
#include<stdio.h>
int printRevTable(int iNo)
{
    //logic
}
int main()
{
    int iValue =0;
    printf("Enter number:\n");
    scanf("%d",&iValue);
    printRevTable(iValue);
    return 0;
}
```



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