Exp. No. 4

Design a lexical Analyzer to validate operators to recognize the operators +,-,*,/ using regular arithmetic operators using C

Program:

```
#include<stdio.h>
#include<conio.h>
int main()
{
        char s[5];
        printf("\n Enter any operator:");
        gets(s);
        switch(s[0])
        {
                case'>':
                        if(s[1]=='=')
                                printf("\n Greater than or equal");
                        else
                                printf("\n Greater than");
                        break;
                case'<':
                        if(s[1]=='=')
                                printf("\n Less than or equal");
                        else
                                printf("\nLess than");
                        break;
                case'=':
                        if(s[1]=='=')
                                printf("\nEqual to");
                        else
                                printf("\nAssignment");
                        break;
                case'!':
                        if(s[1]=='=')
                                printf("\nNot Equal");
                        else
```

```
                printf("\n Bit Not");
            break;
        case'&':
            if(s[1]=='&')
                printf("\nLogical AND");
            else
                printf("\n Bitwise AND");
            break;
        case'|':
            if(s[1]=='|')
                printf("\nLogical OR");
            else
                printf("\nBitwise OR");
            break;
        case'+':
            printf("\n Addition");
            break;
        case'-':
            printf("\nSubstraction");
            break;
        case'*':
            printf("\nMultiplication");
            break;
        case'/':
            printf("\nDivision");
            break;
        case'%':
            printf("Modulus");
            break;
        default:
            printf("\n Not a operator");
    }
}
```

OUTPUT:


C:\Users\hp\Documents\Com
Enter any operator:<=
Less than or equal
Process exited after 27.12 seconds with return value 0
Press any key to continue . . .