```
Lab program 2:-
#Include (Stdio.h)
# include < string. h>
int F (char symbol)
   switch (symbol)
     case (+):
     Cose -: return 2;
     case (* ':
   Cose / : roturn 4;
   (ose 'x':
   case '$': return 5;
    cose (C): return 0;
    (age 4": return (-1;
   int (or (char symbol)
(ladmys) Attions
 (ase 1 + ):
   case '-1: return 1;
 cose '*': Des
 case (/): return 3;
  Cose (1).
  Cose ($ ': return 6;
   (age ('(): hetum 9;
   (ase ')' roturn 0;
  default: return 7;
```

```
void infix postfix (chos infix[], pelos postfix[])
    ii, i, qot bui
    char s[30], symbol;
    top = -1;
    s[++top] = '#';
    i=0;
    for (i=0; i< stalen(infix)) i++)
     Symbol = infix [i];
      while (F(s[top]) > (r(symbol))
       postfix[i]=5[top--];
       <u>j++j</u>
      ib (F(s[top])! = (c(symbol))
         sle++top] = Symboli
     else
        top -- i
   while (s[+op] != #1)
    postfix [)++]=s[top--];
   postfix[j]=101;
void main()
char infin[20];
then postfix [20];
printf (" Enter the valid infix expression: ");
   scanf (" /. s ", xinfix);
   intix_postfix (infix, postfix);
  printf ("The postfix expression is: $ 15 m, postfix);
```

```
Enter the valid infix Expression:((A+(B-C)*D)^E+F)

The postfix expression is: ABC-D*+E^F+
PS D:\C Programs> cd "d:\C Programs\"; if ($?) { gcc

Enter the valid infix Expression:a^b*c-d+e/f/(g+h)

The postfix expression is: ab^c*d-ef/gh+/+
PS D:\C Programs> cd "d:\C Programs\"; if ($?) { gcc

Enter the valid infix Expression:X^Y^Z-M+N+P/Q

The postfix expression is: XYZ^M-N+PQ/+
```