

Lab program:

```
#include <stdio.h>
#include <string.h>
#include <process.h>
int F( Char Symbol)
```

```
{
    Switch ( Symbol)
```

```
    Case '+' :
```

```
    Case '-' : return 2;
```

```
    Case '*' :
```

```
    Case '/' : return 4;
```

```
    Case '^' :
```

```
    Case '$' : return 5;
```

```
    Case 'C' : return 6;
```

```
    Case '?' : return 0;
```

```
    default : return 7;
```

```
}
```

```
}
```

```
void infix-postfix( Char infix[], Char postfix[])
```

```
{
```

```
    int top, i, j;
```

```
    Char s[30], Symbol;
```

```
    top = -1;
```

```
    s[top++] = '+';
```

```
    j = 0;
```

```
    for (i = 0; i < strlen(infix); i++)
```

```
{
```

```
        Symbol = infix[i];
```

```
        while ( F(s[top]) > G(Symbol))
```

```
{
```

```
            postfix[j] = s[top--];
```

```
            j++;
```

```
}
```

```
if (S[top] != G(Symbol))
```

```
{  
    S[++top] = Symbol;
```

```
}  
else  
{
```

```
    top --;
```

```
}  
while (S[top] != '#')
```

```
{  
    postfix[j++] = S[top--];
```

```
}  
postfix[j] = '\0';
```

```
}  
void main()
```

```
{  
    char infix[20];  
    char postfix[20];  
    clrscr();
```

```
    printf("Enter the valid infix exp\n");  
    scanf("%s", infix);
```

```
    infix-postfix(infix, postfix);
```

```
    printf("The postfix exp is\n");  
    printf("%s", postfix);  
    getch();
```

```
}
```