```
include <iostream>
Using namespace std;
int priority (char c);
char infix[20], stack[20];
int I = 0, j = 0;
int Main ()
{
int p1;
cout << "Enter infix expression:";</pre>
cin >> infix;
cout << "output expression is:";</pre>
 do
  {
p1 = priority (infix[i]);
if (p1 == 6)
cout << infix[i];</pre>
   else
        {
if (j == 0)
           {
stack[j] = infix[i];
j++;
}
   else
if (p1 == 4)
```

{

B] Infix to postfix Conversion

```
stack[j] = infix[i];
j++;
}
     else
if (p1 == 5)
{
           do
                  {
cout << stack[j - 1] << " ";
j--;
}
            while (stack[j-1] != '(');
      j--;
}
         else
if (p1 > priority (stack[j-1]) \mid | stack[j-1] == '(')
           {
stack[j] = infix[i];
j++;
}
          else
if (p1 <= priority (stack[j -1]))
           {
while (p1 <= priority (stack[j -1]) && stack[j -1] != '('
                     && j != 0)
                 {
cout << stack[j - 1] << " ";
j--;
```

```
}
stack[j] = infix[i];
j++;
                         //end of if
}
        }
                                   //end of main else
   i++;
}
 while (infix[i] != NULL);
for (I = j - 1; I >= 0; i--) //print remaining operators of stack
  cout << stack[i] << " ";
return 0;
}
int
priority (char c)
{
int p;
ilf (c == '+' | | c == '-')
P = 1;
 else
if (c == '*' || c == '/')
P = 2;
 else
if (c == '(')
p = 4;
 else
if (c == ')')
p = 5;
 else
p = 6;
```

```
return (p);
}
Output:
Enter infix expression:a+b
Output expression is:ab+
Enter infix expression:a+b*c
Output expression is:abc* +
Enter infix expression is:abc*+
Output expression is:ab+cd-*
```