## INFIX TO POSTFIX CONVERSION

```
#include <stdio.h>
#include <string.h>
#define MAX 20
int Stack[MAX], top = -1;
char expr[MAX], post[MAX];
void Push(char sym);
char Pop();
char Top();
int Priority(char sym);
int main()
{
int i;
printf("Enter the infix expression: ");
gets(expr);
for(i = 0; i < strlen(expr); i++)
if(expr[i] >= 'a' && expr[i] <= 'z')
printf("%c", expr[i]);
else if(expr[i] == '(')
Push(expr[i]);
else if(expr[i] == ')')
while(Top() != '(')
printf("%c", Pop());
Pop();
}
else
while(Priority(expr[i])<=Priority(Top()) && top!=-1)
printf("%c", Pop());
Push(expr[i]);
}
for(i = top; i >= 0; i--)
printf("%c", Pop());
return 0;
}
void Push(char sym)
top = top + 1;
Stack[top] = sym;
}
char Pop()
{
char e;
e = Stack[top];
top = top - 1;
return e;
}
char Top()
return Stack[top];;
int Priority(char sym)
int p = 0;
```

```
switch(sym)
{
case '(':
p = 0;
break;
case '+':
case '-':
p = 1;
break;
case '*':
case '/':
case '%':
p = 2;
break;
case '^':
p = 3;
break;
}
return p;
Output
Enter the infix expression : a/b^c+d*e-f*g
abc^/de*+fg*-
```