```
#include<iostream>
#include<conio.h>
using namespace std;
class stack
{
public:
char stack_array[50];
int top;
stack()
{
top=-1;
}
void push(char symbol)
{ if(full())
cout<<"\nStack overflow:\n";</pre>
else
{ top=top+1;
stack_array[top]=symbol;
}
}
char pop()
{ if(empty())
return('#'); // Return value '#' indicates stack is empty
else
return(stack_array[top--]);
}
int empty()
{ if(top==-1)
return(1);
else
return(0);
```

```
}
int full()
{ if(top==49)
return(1);
else
return(0);
}
private:
char infix[50];
char postfix[50];
public:
void read()
{
cout<<"\nEnter an infix expression:";</pre>
cin>>infix;
}
int white_space(char symbol)
{ if(symbol=='\t' || symbol=='\t' || symbol=='\0')
return 1;
else
return 0;
}
void ConvertToPostfix()
{ int prev,p;
char entry;
p=0;
for(int i=0;infix[i]!='0';i++)
if(!white_space(infix[i]))
{ switch(infix[i])
{
```

```
case '(': push(infix[i]);
break;
case ')': while((entry=pop())!='(')
postfix[p++]=entry;
break;
case '+':
case '-':
case '*':
case '/':
if(!empty())
{ prev=prior(infix[i]);
entry=pop();
while(prev<=prior(entry))</pre>
{ postfix[p++]=entry;
if(!empty())
entry=pop();
else
break;
}
if(prev>prior(entry))
push(entry);
}
push(infix[i]);
break;
default:
postfix[p++]=infix[i];
break;
}
}
}
while(!empty()) //while stack is not empty
```

```
postfix[p++]=pop();
postfix[p]='\0';
cout<<"\nThe postfix expression is: "<<postfix<<endl;</pre>
}
int prior(char symbol)
{ switch(symbol)
{ case '/': return(4); // Precedence of / is 4
case '*': return(3); // Precedence of * is 3
case '+': return(2); // Precedence of + is 2
case '-': return(1); // Precedence of - is 1
case '(': return(0); // Precedence of ( is 0
default: return(-1);
}
}
};
int main()
{ char choice='y';
stack expr;
while(choice=='y')
{expr.read();
expr.ConvertToPostfix();
cout<<"\n\nDo you want to continue ? (y/n): ";</pre>
cin>>choice;
}
return 0;
}
```