```
#include<stdio.h>
#include<conio.h>
#include<string.h>
int i,1,j=0,top=0;
char in [30], s[30], p[30];
void push(char item);
char pop();
void main()
{
        clrscr();
        printf("\n\t CONVERSION FROM INFIX TO POSTFIX NOTATION");
        printf("\n\t ========");
        printf("\n\n\t Enter Non-Numerical Expression: ");
        scanf("%s",&in);
        l=strlen(in);
        printf("\n\t Entered Infix Expression is: %s",in);
        in[l]=')';
        in[++1]='\setminus 0';
        s[0]='(';
        for(i=0;i<1;i++)
        printf("\n\t\t Stack: %s \t\tp: %s",s,p);
        switch(in[i])
        {
                case '(':
                         push(in[i]);
                         break;
                case '^':
                         while (s[top] == '^')
                         p[j++] = pop();
                         push(in[i]);
                         break;
                case '*':
                         while(s[top] == '^' || s[top] == '*' ||
s[top] == '/')
                         p[j++] = pop();
                         push(in[i]);
                         break;
                case '/':
                         while(s[top] == '^' || s[top] == '*' ||
s[top] == '/')
                         p[j++] = pop();
                         push(in[i]);
                         break;
                case '+':
                         while(s[top] == '^' || s[top] == '*' ||
s[top]=='/' || s[top]=='+' || s[top]=='-')
                         p[j++] = pop();
                         push(in[i]);
                         break;
                case '-':
                         while(s[top] == '^' || s[top] == '*' ||
s[top]=='/' || s[top]=='+' || s[top]=='-')
```

```
p[j++]=pop();
                         push(in[i]);
                        break;
                case ')' :
                         while(s[top]!='(')
                         p[j++]=pop();
                         top--;
                         break;
                default:
                        p[j++]=in[i];
        }
        printf("\n\n\t CONVERTED POSTFIX EXPRESS IS: %s",p);
        getch();
}
char pop()
        char a;
        a=s[top];
        top--;
        return a;
}
void push(char item)
        top++;
        s[top]=item;
}
```