```
//Infix to postfix
261
262
       #include<stdio.h>
263
       #include<string.h>
264
       int F(char symbol)
265
     □ {
266
            switch (symbol)
267
                case '+':
268
                case '-':return 2;
269
                case '*':
270
271
                case '/':return 4;
272
                case '^':return 5;
273
                case '$':return 0;
274
                case '#':return -1;
275
                default:return 8;
276
277
278
       int G(char symbol)
279
     ₽ {
           switch(symbol)
280
281
282
           case '+':
           case '-':return 1;
283
           case '*':
284
285
           case '/':return 3;
286
           case '^':
287
           case '$':return 6;
288
           case '(':return 9;
289
           case ')':return 0;
290
           default :return 7;
291
292
293
       void infix_postfix(char infix[],char postfix[])
```

```
294
295
           int top, i, j;
296
           char s[30],symbol;
297
           top=-1;
            s[++top]='#';
298
299
           j=0;
           for(i=0;i<strlen(infix);i++)</pre>
300
301
                symbol=infix[i];
302
                while (F(s[top])>G(symbol))
303
304
305
                    postfix[j]=s[top--];
306
                    j++;
307
308
                if(F(s[top])!=G(symbol))
309
                    s[++top]=symbol;
310
                else
311
                    top--;
312
313
           while (s[top]!='#')
314
315
                postfix[j++]=s[top--];
316
317
           postfix[j]='\0';
318
319
       int main()
320
      □ {
321
           char infix[20];
322
           char postfix[20];
323
           printf("Enter a valid infix expression\n");
324
           scanf("%s", infix);
```

```
infix postfix(infix, postfix);
325
326
           printf("The pochar main::infix : \n");
           printf("%s\n", postfix);
328
           return 0;
329
```

```
"C:\Users\Shreshtha Aggarwal\Desktop\1stpro\bin\Debug\1stpro.exe"
Enter a valid infix expression
A+B^C*D/F-G
```

The postfix expression :

ABC^D*F/+G-

Process returned 0 (0x0) execution time: 16.343 sPress any key to continue.