```
Name: Acheta. A. Tangade.
14 Suene.
                                              USN = 12N19C6004
Hinclude < 87dio. h>
#include
#define mar_size 5
Void accept (int &[max-size], int * front, int * seas)
 3
           int value;
            if (* near! = max-size -1)
                  point ("enter the vchoice to be insented in");
                   scanf ("% d", & value);
                   ( * siear) ++;
                    Q[* grear] = value;
                    printf ("InBerted = % d In"3, value);
           3
           else
                  printf ("Queue is full in");
3
      del (int & [max-size), int * front, int * hear)
void
          int elem;
          if (*fevont <= * Hear)
                 point (" Deleted: "/ d In", & [* front);
                  elen = Q[*front];
                  (*front)++;
          else
                 print f ("Queue is empty 10");
                  (*front) = 0;
                  (* near) = -1;
         3
 3
```

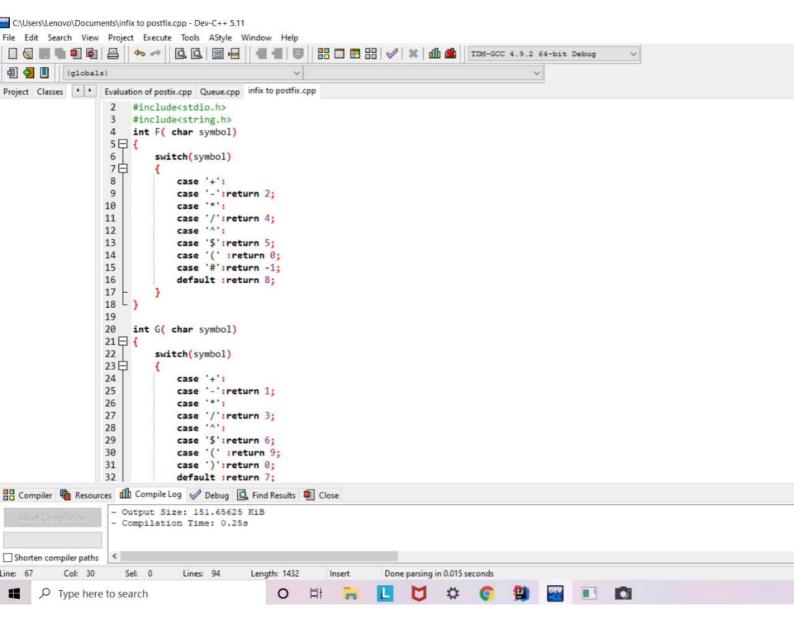
```
display (int & (max-8i2e), int front, int near)
         of (front > near)
                   prints ("Queue is empty \n");
         else
                int i ;
                printf (" Queue is topy elements are: 10");
                for (i = front; i < = 91ear ; i++)
                         printf (" . 1. d", Q [P]);
         4
int main ()
       int 8[max-size], front = 0, sieur =-1, ch;
       while (1)
       { printf ("enter the choice 10");
           prints ("1. accept in 2. del in 3. display in 4. (xit);
            8 canf ("10d", fch);
             Switch (ch)
                    case i: accept (9, front, & sear);
                             break;
                    case 2: del (B. & front, france);
                             break;
                     case 3: display (8, front, hear);
                               break;
                     default: return o;
              3
         3
3
```

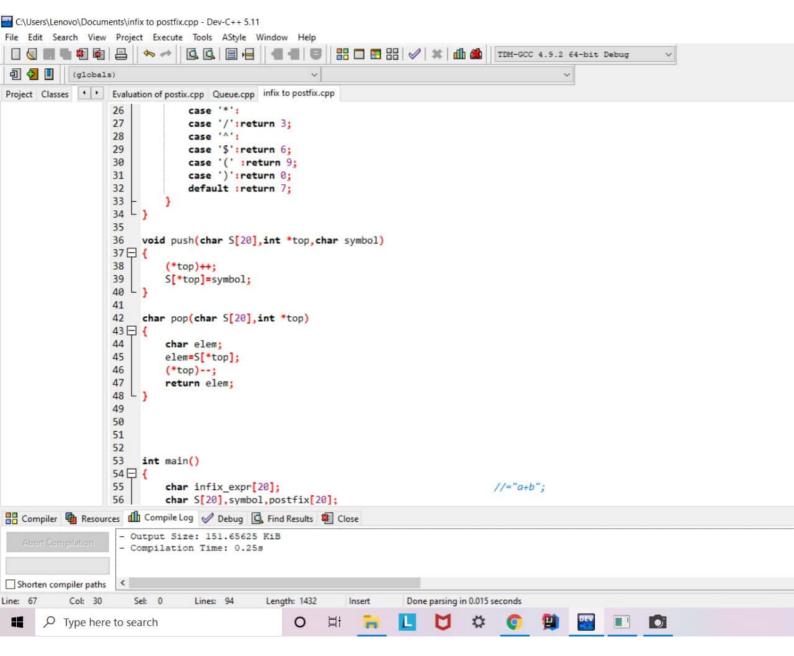
```
Dingix to prefix expression
  Hindude (stolio.h)
  #include < string. h>
  Int F (char symbol)
         Switch (symbol)
               case '+':
               case '-' : neturon 2;
               case 'x':
               case '1': greturon H;
case '1': return 5;
               case 'C': Heturno;
               case '#': greturn -1;
               default: return 8;
         3
  3
  int & (char symbal)
         Switch (symbal)
                 coule '+' :
                 case '-': sieturo 1;
                 case '1' : neturn 3;
                  case 'n' :
                 case '$' : suturn 6;
                 Case '(': section 9;
                  case's': returno;
                  default: return 7;
          3
```

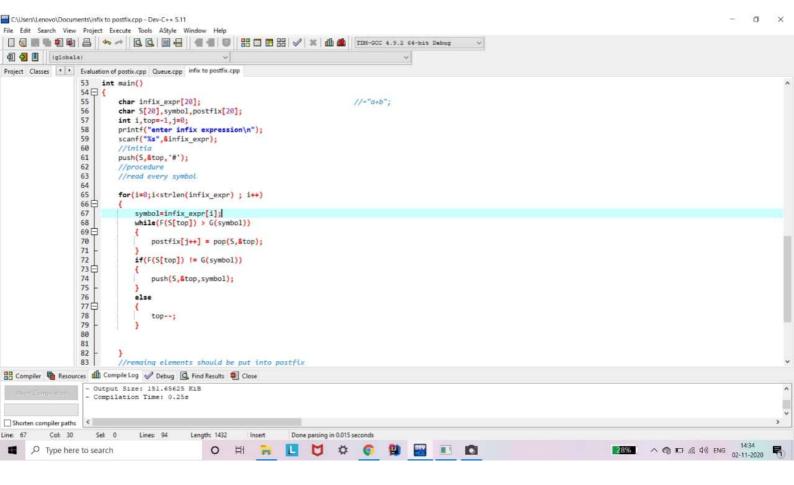
```
push (char s[00], ist * top, char symbol
2
           (++ (qot *)
          S[*top] = symbol 3
3
Void pop (char s[80), int *top)
 3
           char elem;
            elem = S[*top];
            (*top) --;
            seturn elem;
int
      main()
         char infix-expr[20];
          charis[20], symbol, postfix[20];
          iot i, top = -1 , j=0;
         prints ("entre the postfix infix expression In");
scanf (".1.3", & infix -expr);
          push (s, & top, 1'#1);
          for (i= 0; iz 8trlen (infix-expro); i++)
                     symbol = infix - expr [i];
                     while (F (s[top]) > G(symbol))
                             postix (j+t) = pop (s, ftop);
                     if (F(s[top])!= &(symbal))
                               push (s, ftop, symbol);
                    clse
                         top -- ;
         while (s[top] ! = "#")
                      postfix (1++) = pop(s, 8 top);
          postfix[++i]=110'3;
         prints ("postfix exp is 405", postfix);
          suturn 0;
```

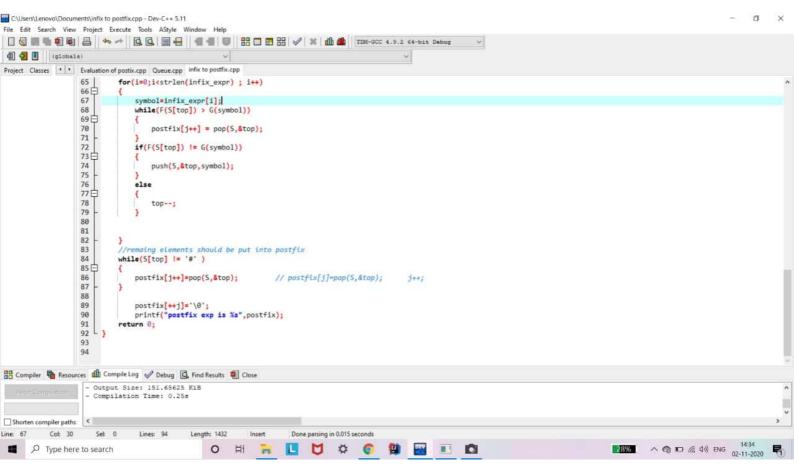
```
3 Evaluation of postfix exp.
  #include < stdio.h >
  Hinclade ( string. h>
  # include < ctype . h>
 It include <math. hy
        push (int s[80], int *top, int openand)
          (+top)++;
          s[*top] = operand;
 3
 int pop (int s[ao], int *top)
 र्
            int elem;
            elem = s[*top];
            (*top) -- "
            secturn elem;
3
      evaluate (int op1, char symbol, int op2)
int
          Switch (Symbol)
3
                  case '+': suturn (op 1 + op 2);
                  care '-' ; sieturn (op1 - op2);
                  Case '*' : Meturn (0p1 * 0p2);
                 case 1/1; return (op1/op2);
                 case ins; sietura pow (op1, op2);
2
```

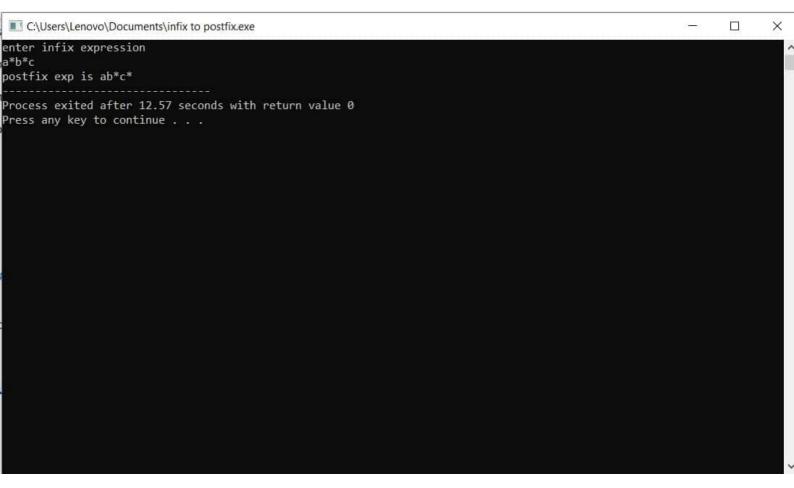
```
int main()
         char postfix-exps (20];
         int s[20], op1, op2, 408);
          char symbol;
          int i, top = -1;
          printf ("enter postfix exp. 10");
          Scanf (" 0/08", & post lix-expx);
          Bor (i=0; i28trien (postfix-exps); i++)
                  symbal = postfix -expo(i);
                   if (isdigit(symbol)).
                        push (s, ftop, symbol - 'o');
                            op2 = pop(s, ftop);
                             op1 = pop (s, gtop);
                             sus = evaluate (op1, symbol, op2);
                             posh (s, ftop, ses);
         print (" suspit = ol. d In", pop(s, &top));
         suturn 0;
```

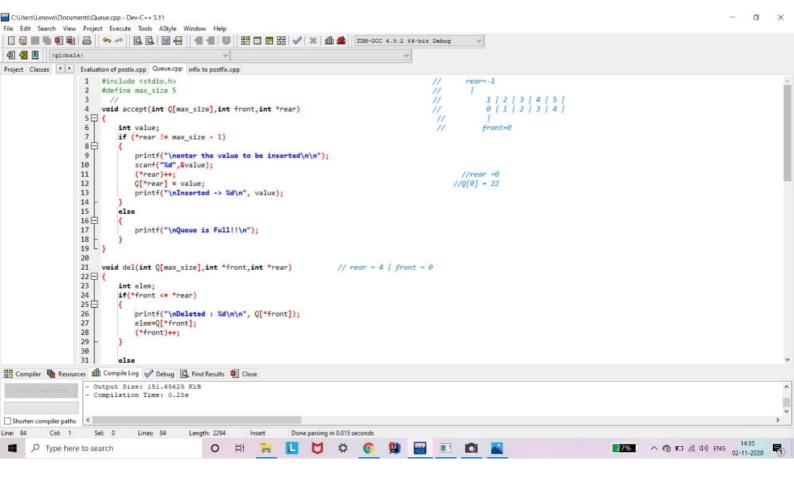


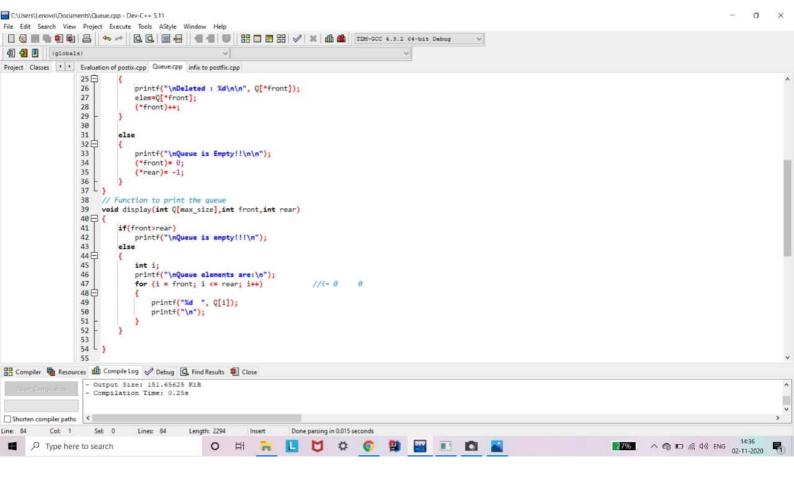


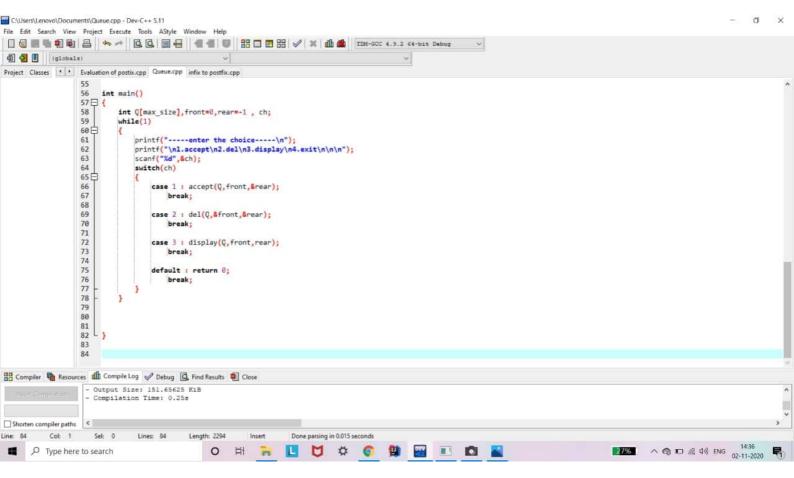






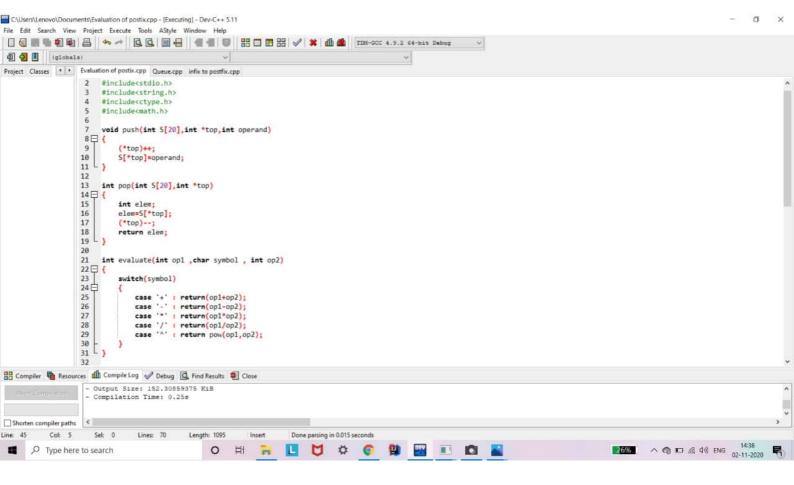


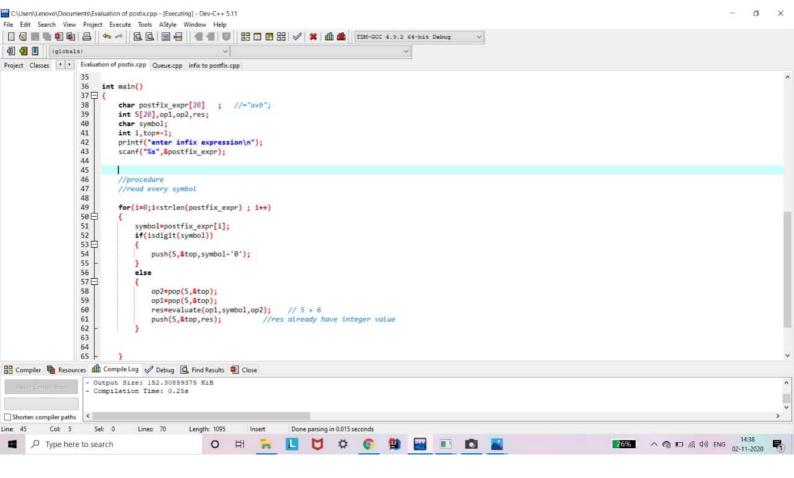


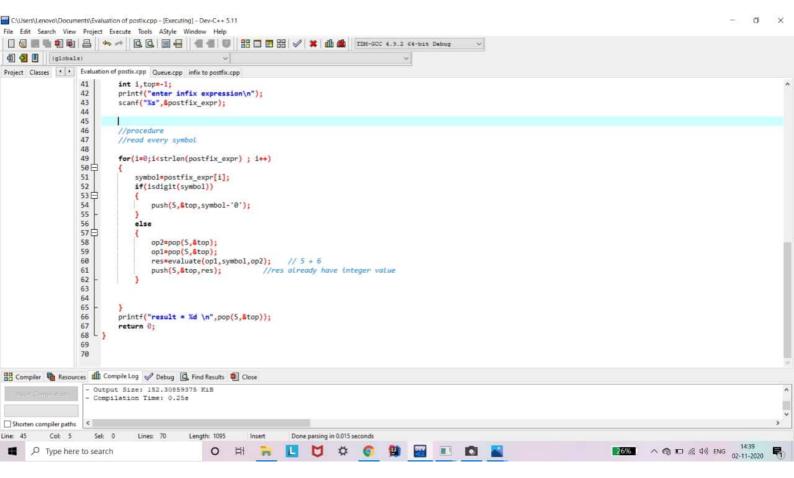


```
C:\Users\Lenovo\Documents\Queue.exe
----enter the choice----
1.accept
2.del
3.display
4.exit
enter the value to be inserted
Inserted -> 10
----enter the choice-----
1.accept
2.del
3.display
4.exit
enter the value to be inserted
20
Inserted -> 20
----enter the choice----
1.accept
2.del
3.display
4.exit
```

×







C:\Users\Lenovo\Documents\Evaluation of postix.exe		×
enter infix expression 23^5+ result = 13		
Process exited after 20.73 seconds with return value 0 Press any key to continue		