```
pqueue [i] = - 99;
         #include < stdio.h >
                                        PRIVRITY OUGUE
                                                                      rear --;
        # include cstdub. h >
                                                                      if (rear = = -1)
ile ( pri # define MAX 5
                                                                           Front = -1;
        int p queue [MAX];
  print int front = rear = -1;
                                                                      return;
h ( * e
        void enqueue (Int item)
                                                                 printf ("In %d element not found in
             if (rear >= MAX -1)
                                                                                                  queue, item);
                 printf("In QUEUE OVERFLOW");
                                                             void display()
             if ((front = = -1) && (rear = = -1)
" YOC"
                                                                 if (Cfront = =-1) & & (rear == -1))
                 Front = rear = 0:
                                                                     printf (" In Empty Queue");
                 Pqueue [rear] = item;
                                                                      return;
            else
                check-priority (item),
                                                                 for (; front = rear; front 11)
           rear ++;
                                                                      printf(" " dod', pqueue (Fron! ]);
       void eheck-priority (intitem)
                                                                 front = 0;
           Int ini;
           for (i=0; i = rear; i++)
                                                             void main ()
                if (items = pqueaelis)
                                                             intn, choice;
                                                                prints ("In Enter 1 to insert element by priority")
                    For Cj=rear +1; j >1;j--)
                                                                printf ("In Enter ) to delet element by priority");
                                                                printf ("In Enter 3 to display priority queue")
                       pqueue [j] = pqueue (j-1];
                                                               printf("In Enter 4 to exit");
                   pqueur OT = item;
                                                               while (1)
                  return;
                                                                  printf ("In Enter your choice : ");
                                                                  Scanf (" % d", & choice);
           pqueue [i] = item;
                                                                  Switch (choice)
                                                                     case 1 : printf ("Elater element to insert :");
      void dequeur (int item)
                                                                             scan f (" fod", &n);
          inti;
                                                                             enqueue (n);
          if ((front == -1) & & (rear == -1))
                                                                             break;
             printf ("In Empty Queue");
                                                                     cose a: printf ("Enter element to delete: "),
             return;
                                                                             scanf ( " Y.d ", &n );
                                                                             dequeue (n);
         for (1=0; 12=rear; 1+1)
                                                                            break;
                                                                     cases: display ();
             if (item == pqueue(i))
                                                                             break;
                                                                     case 4: enit(0);
                for (; i < rear; i++)
                                                                    default, printf ("In Please enter valid chofe")
                                                             3 7
                   pqueue[i] = p queue[i+1];
```

```
#include < stdio. h >
                               INFIX TO PUSTFIX
# include & chype.h>
                                                        else
char stack [100];
                                                          while (priority (stack [top ]) >=
                                                                                priorib (*e))
int top = -1;
                                                                print f ("%(", pop ());
void push (chain)
                                                          push ( *e),
    stach [1+top]=n;
                                                      e++;
char popl)
                                                  while (top 1 = -1)
    if Ktop == -1)
                                                     printf (" Yoc", pop(1))
         return -1;
    else
         return stach [top -- ]:
                                                 returno;
int priority (char x)
     if (n = = '(')
          returno;
     if(n == '+' || n == '-')
          return 1;
     if (n== (*) || n== (/)
           return 2;
     return 0;
    main ()
    char enplicol,
    char *e, n;
    printf ( Enter the empression: "),
    scanf ("%s", emp);
    printf ("In");
    e=exp;
    while (*e 1= 1/0')
         if (isanum (*e))
              printf("%c", *e);
         else if ( *e == '('))
              push ( * e);
         else if ( *e = = ')')
             while ((m = pop()) != (())
                   printf("%, c", x);
```

```
# include Estation >
                                 EVALUATION OF POSTFIX
Ainclude ectypech>
                                              void push (int n)
+ include cstdlikh)
                                                 if (top 2 8126-1)
# define SIZE 40
                                                      stack [totop]=n;
in the
char postfir [size];
                                                   else
int stack coize I , top = -1;
                                                       printf("Stack is full! In")
int main ()
                                                       enit (-1);
   inti,a,b, result, pEval,
   charch;
   for (i=0; i2812E; i++)
                                               int pop ()
       stack (i] =-1;
                                                   int n;
                                                   if (top>-1)
    printfl" Enter a postfix expression, ");
                                                       n= stack (top);
    scanf (" Yos", postfin");
                                                       stack [top-- ] = -1;
   For (120; postfiv[i]) = 'lo'; itt)
                                                       return p;
        ch = postfinalis;
                                                    else
                                                       printf("Stack is empty! In");
        if (isdigit(ch))
                                                        enit(-1);
            push (ch-'0');
        else if (ch == '+' | ch == '-' | ch == '*' | ch == '/')
             b = pop();
             a = pop();
             Switch (ch)
                 ease 't': result = a+b;
                           break ;
                 case = : result = a-b;
                           break;
                 case '*': result= a * 6;
                           break;
                 case 'l' : result = a/b;
                           break;
                case '%': result = a % b;
                          breaks
             push (result);
    pEval = pop();
    printf ("In the postfix evaluation is : "od In", p Eval);
```

returno;