push (infix(i));

the if (infix(i)>='a' & & infix[i] <='z' | |

infix(i)>=0 && infix[i] <= 9 | |

infix(i)>='A' & infix(i) <='z')

postfix(j) = infix(i);

```
else if linfix [i] == '))
           while (stack[top] != '(')
                 postfix [j] = pop();
            temp=pop();
         while (precedence (infix[i]) <=
                precedence (stack (top)) bil top>=0)
              postfix (j] = pop();
          push (infix(iJ);
while (stack (top) != '\0')
      pestfix (j) = pop ();
postfix [j] = '\0';
printf(" Postfix expression :\n");
printf (" 1.5", postfix);
```

```
void push (char val)
    if (top == n-1)
        printf (" Overflow");
      top + = 1;
      stack [top] = val;
char pop ()
    if (top == -1)
     printf ("Underflow");
    { val = stack[top];
       top -= 1;
       return val:
int precedence (char c)
  if ( == ' n )
    xeturn 5:
       reterm 4;
  else if ( c == " * ")
      seturn 3:
   else if (c == '+')
      return 2;
   else if (c=='-')
     return 1:
        seturn -1:
```

```
OUTPUT:
   Enter an infix expression:
   a*b+c*d
   Postfix expression:
   ab* cd* +
2. Evaluation of postfix expression
   #include <stdio.b>
   #include <string.h>
   #include <ctype.h>
   int n, top = -1, k;
   int val , xes , ans;
   int stack [100];
   ther expn (100);
   void push (int (), int);
   int pop (int (1);
   int evaluate (char expn[]);
   void main ()
       printf ("Enter a postfix expression: \"):
       scant (" = 1 - 5" expn);
       ans = evaluate (exfn):
       pointf ("Answer of above expression: In");
      pointf ("% d", ans):
```

```
int evaluate (char expn[])
   int op1, op2, i=0;
   n= stylen(expn);
   while (expn(i]!='\0')
      if (isdigit (expn[i]))
          push (stack, (int) (expn[i]-'0')).
       else
           opl = pop (stack);
           op 2 = pop (stack);
            Switch (expn[i])
                case '+' =
                    xu=op1 +op2;
                    break;
                    res=op1-opa;
                    break;
               case '*':
                    xes=opl * op2;
                     break;
                case '/':
                     Yes = opd / opl-
                     break;
               case 1 % 1 :
                 Tes = op 2 % op1;
                    boeak:
               default:
                                                     OUTPI
                  continue;
                                                     Enter
                                                      Value
```

```
Bafna Gold
        if(ru(0)
          8es = xes *(-1);
         push (stack, ses);
xeturn stack (top);
void push (int stack [], int val)
   if(top == n-1)
   printf (" Overflow");
  else { top + = 1; stack[top] = val;
int pop (int stack[])
} if(top==-1)
    else printf("Underflow");
    { val = stack (top);
   top-=1;
     seturn val;
 OUTPUT:
 Enter a postfix expression:
 12*34*45-
 Value: 9
```