## Experiment -10

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Intermediate code generation-Posfix Press

Aim:

To develop a program to implement Intermediate code generation-postfix/prefix

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- William 12 45 " 22 The 17 17 50 50 18 18 Algorithm: 1 Read the prefix expression from left to right.
  - 1 To the symbol is an openand, then push it onto the stack.
  - 3) If the symbol is an operator, then pop the operateds of from the stack.
  - 9 string 2 operator + operand a + operand posh strong & stack
  - B Regrew steps (054) until and of prefix - expression expression.
  - stop.

```
code:
   #include < stdlash >
   #include < conio. h>
   # include < string.h>
   # include < stallib.hs
   # define MAXRO
   cheir str [MAX], stack [MAX];
    int top 2 -1 ; 5
    void push (charc)
     stach [++ top] 2 c;
    int is operator (char n)
      suitch (re) of
      can ti:
         case 1 . 1 .
         can 11:
         case 1 el .
             return 1;
```

along of which was the both of myright

return Oi

```
void postfix to prefix ()
          d int wiij zo,
            for (izo, i zmax, it)
                Stact [i] 2 101;
            printf (" Prefir or pression is: \til)
            i=0; -- Jane Jane Jane
            i = strlen (c) 5 -1;
            Charge
            char d[ro];
                       Les of Suns
            mule C[c[i]] = 101) {
                 d [j-] = C[i+],
              print+ (" -/: 5/n ", d)/
           int main ()
       of posters ()
          postfro to prefix ();
           neturn 0;
Result: The program to And intermediate cecle genevation was implemented.
```

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Input Output : Expl: Push the operano in reach the next is operator so pop. operand 2 (a) and depend (1) 1 b Empression 2 tab (operand 2) Expression 2 1 - cd

, final operation : \*+ab-cd

Enter the postfix Expression: ab + cd - \*

Obs Prefix expression:

\* + ab - col .