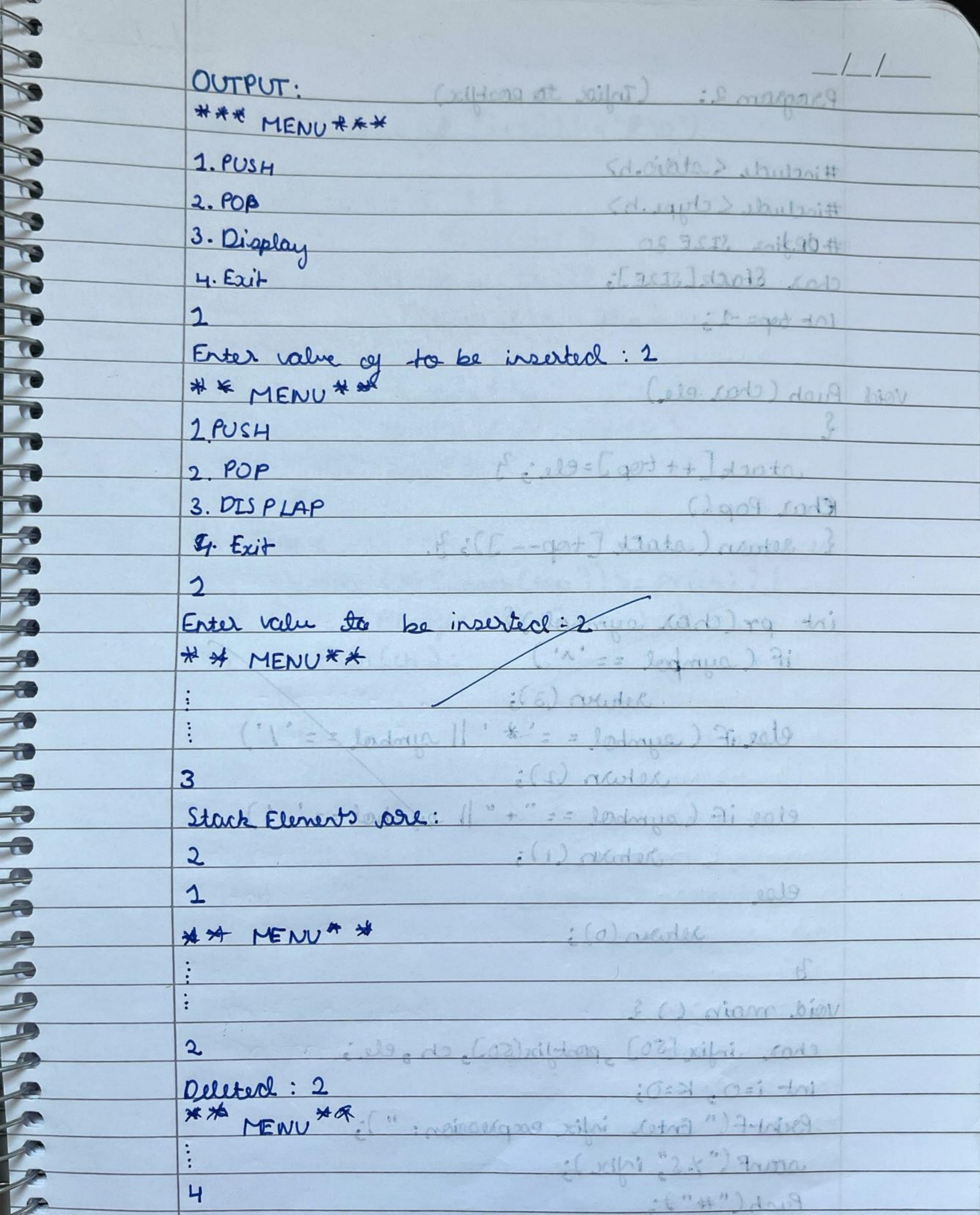
```
PROGRAM-1
                                 (the == and) 71
#idblude < Stelio.h >
#include (conib.h) (" jutama ai santo m") +incl
#deline SIZE 100
void push (int); : eca demade deala or/ ) africe
void pop();
void display (Distante "in/bal") 7-11/19
int stack [SIZE], top = -1
                                Daine bigu
Void push (int value) {
if (top = = Si32-1)
     Printf ("In Stock in Full ");
top=top+1; (mind) k pop "D' france and
     stack [top] = value; proposition
   Heroni and out substant sets?"
     : (mulate "bot") 7002
Void pop(){
if (top = = -1) {
      Pointf ("In stack is empty"); :000
else.
  Paintf ("h Deleted: "/·d.", Stack[Topt]);
   top = top - 1;
                              : door
                           :(0) ding dinam
                or/201997 of " ) stake (" ) of ERROR )
```

```
Void display () {
if (top ==-1)
                            adopted an interpret
    Paint ("In stack is empty!");
                            301 313 2-310h #
   Pointf ('In stack elements are: \n');
   for (i=top; i>=0; i--)
        paintf("% old \n", Stack[i]);
                   the agent of getted dance this
Void main () {
                     If and day bull tour
int value chaice ;
  Printf (" \n\n** MENU * * \n);
  Print ("1. Push In, 2. Pop In 3. Rioplay In 4. Exit");
  Bis Scarf ("% d", x Choice);
Switch (choice) & and I don't
       Printf ("Enter the solve to be inserted:");
       scanf ("% d", shule);
       Puch (value):
        buck;
Case 2: Pop (); ( Hans ai dant all Attiel
        book.;
cool 3: display();
       Bleak:
cool4: eocit-(0);
dyout: Printf (" \n ERROR \n");
```



```
(Infic to postuc)
     Program 2:
     #include < stdio. h>
     #include (ctype.h)
     # define SIZE 20
                                                 Hica . po
     char Stack[SIZE];
     int top= -1;
                                        The Walter of the
void Push (chaz ele)
       stack[++top]=ele; 3
                                            B. DISPLAP
     Char Pop ()
                                                4-13
       return (stack [top--]); 3.
    int pr (char symbol) {

if (symbol == '^')
                                        Estable Letas
                 . Aetwa (3);
       else if (symbol = = '-* 11 symbol >
                 20kun (2);
       else if (symbol == "+" | symbol == '-')
                return (1);
       else
              setwen (0);
    void main () {
      char infix [50), post-fix(50), ch, ele;
      int i=0, K=0;
      Brint-f (" Enter infix expression: ");
      sount (" /. S", infloc );
      Push ("#");
```

```
18 BUDGOAL
While ( (ch = infigk [i++])! = "#10")
                         公司、公司第一个人的第一个人的
    if (ch == 'C') {
                         ZABITADD J. Bullanit
              Push (ch) 3
    else if (is alnum (ch)){
            Postfise [k++]= chi 3
    else if (ch = = ')'){
       while (stack [top]!='c'){
           Postfix [K++]=Pop(); 3
       Cle = pop ();
                   ofference many me") Steamed
   else
      while (pr (stack [top]) >= pr(cn) ? {
           Postfix [k++]=pop(); 3 000- 000
                        = meti = Lang INP
       Push (ch);
while (stack [top] != #1) {
                           and stand
     Postfix CK++J-pop();3
Postfix[k]="10";
Painty ("The postfix cooplession is: %-s", postfix);
OUTPUT
Enter infix coxpussion: atbtc
The post-fix expussion is: abc++
                        the allest one whately
            " " ( of me 19 39 of me 1") . Addita
              Getter i was sit sont = 12 men
           FF Filte Niber") Frien
```

1-74

Rangeam 3:

```
("o/ " = ! ([++i] tilei = 10)) elited
  #include < seddio. 4>
  #include (canio.b)
  # include < process. h)
   # define SIZE 5 (dd) mille ai) 71 sale
   int ittem, front =0; 2002 = -1, 9/ [10];
  void insert () trans do di solo
         a transfer of the first of the first
  Point ("greene overflow \n");
    Jetwin :
  9 (du) my ze ( [ out ] anno ) 49) alitu
  200x = 300x + 1; ) 99= + + + 1 11+009
 9 Crear J = item;
int delete (1 €
                                                  1 ( 1 + 1 Lagot) stanta ) elities
if (host > rear)
             Allen -1; Dag - (++) michol
setus q [front++];
 3 - Cairteen "20/2: of winner willtong un") Hales
Void display () {
 if (front > seal) { that comments and its continues of the continues of th
Print (" aune to empty"
 Both return; 3
 Print ("contents of queue \n:");
 for (1=front; i < rear; i++) {
                          paint ("% din, qu[i], 3, 3
```

acusery continued: H margant Joid main () { KALLING THE LANDS OF THE STREET int schoice; CALLEDDED ADMIDANT HE Wile (1) { Printf ("In 1: insert In 2: delete In 3: display In 4: existing Print ("Enter choice n"); scart (" v.d", & choice); Switch (choice) { case 2 : printf ("Enter the item to be inserted 'n'); scant (" ">d sitem); insulani; break: case 2: item = deleteffec (); if (item ==-1) Printf (" gruene is empty In"); else met to trans to PUNHF (" item deleted = % d \n "eiten); (AST2 == 4000) 24 break; case 3: display () i (" meentone meente") 7 drich break; dyant escit(o); BERTHER ALS (THE COLUMN) 2 COME partie/ coelde · ++ = (0) The state of the s THE STATE STATE OF THE OF THE STATE STATE E Franki

20 20 1 1 1 2 4 00 mg 1 = 4 00 mg

```
Program 4: Circular greenes
#include < stolio. h>
#inclucle (conio.h)
# include (process.h)
# dyine SIZE 5
int item, front = 0, real = -1, 9/(10);
void insertation (intitem, int * search int a) []
if- (* succe = ST3E -1)
 Printf (" overlow")
Jetus y
 * Secon - 1;
int soletite front (int * front int * break, int yet
void insertrear () &
if ( court = = SIZE)
 Paint F (" Green Overylow");
                              : (0) Lions :
 Setwon; 3
 3007 = (300x+1) % @ SI3E:
  9 Caea 3 = item;
  court ++ 3
int dublysont ()
   4 (court = = 0) seturn - 1;
   Leon = 9(front];
  front = (front-11) 1/0-512 5
   count --;
```

```
_/_/_
```

```
Alter itun;
void display () {
inti, f;
if ( count ==0)
Pointf ("gruene io empty");
Setus:
f= front;
Paintf ("contents of queue m');
for (i=1; i <= count; i++)
Printf("% d/m", 9 (F]);
f = (f+1) % SI3E;
Void main () }
int choice;
White (1) L
  Pourtf("In 2: isent la2: delete In 3: display In Li cocit");
  Sconf ("01.d" stchaile);
Swritch (Chaics)
case 1: print f ("Enter the item to be inserted in ");
        Scart ("o/. d", stitum);
         instruct ();
         break;
core 2: Item = delete front ();
           if (tem =-1) {
               Pount (" Empty");
```

Printf ("deleted item io: 20/0 d", item); break; cose 3: display ();
break; dyalt: exit (0); Internal SI COURTED STATE 2 ( ) nimar bie V Principle Commence of the Comm Serve ("Plad", X duals, "): Diedo Danting Cross I: pariste ("Extra the itematica Le insorte 10") : L' papag ") Admines