"Stock underflow"); else Stack [top] deleted is % 'Stack is empty" else ", stack while (1) int choice: 1. PUSH n

scanf ("e/d", & choice); switch (choice) casel: push();
boreak;
case 2: pop();
boreak; case 3: display() break; case 4: escit(1); break;
default: printf ("Anvalid input.");
break; Outbut: - Enter the operation 1 push
2, pop
3. display
4. - I to stop
1 7 Successfully bushed

```
enter the operation
1.push
2.pop
3.display
 enter -1 to stop
enter the values
10
push operation is succesfull
enter the values
20
push operation is succesfull
20 pop() operation successfull
3
10
=1
stopping the operations
Process returned 0 (0x0) execution time : 24.343 s
Press any key to continue.
```

Q2. Verite a program to convert a given valid parenthesized infix arithmetic expression to postfix expression. The expression consists of single single character operands and the binory operation t, -, & # include (oldio.h) # include <ctype h> # define size 50 char stack [size]; int tob=-1; bush (char elem) stack [++10b]= elem; seturn (stack [top --]); int pr (char symbol) if (symbol == '^) else if (symbol == '*' | symbol = '/') else if (symbol == '+' | symbol == '-') setwin(i);

```
retion (0);
void main ()
 chan infix [50], postfix [50], ch, elem;
 Int i=0, k=0,
 point ("Enter the infix expression:");

xan ("" & ", infix);

push ("#");
 while (ch = infix [i++]!= '\0')}
   if (ch=='c')
   else if (is alnum (ch)) } postia [k++]= ch;
   else if (ch == (; )
      While (stack [tob] != 'c')
     postfix [K++J=pop();
elem=pop();
   else
    while (pg(stack [top]) >= pg (ch))

postfix [k++] = pop();

puh(ch);
 while (stack [tob] != '#')
   pooffix [k++] = pop ();
 bootlis [K] = 10;
 printf ("In postfix expression = % s In" fostfix);
   Outbut: -
   (K+L-M*N+(0^p)*W/U/V*T+Q)
Infix expression: (K+L-M*N+(O1P)*W/U/V*T+Q)
Poolfix expression: KL+MN*-OP^W*U/V/TX+Q+
```

Enter size of stack 3
Assume the infix expression contains single letter variables and single digit constants only.

Enter Infix expression: k*l+m(n)

Postfix Expression: kl*mn+

Press any key to continue.

Process returned 0 (0x0) execution time: 49.048 s