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  LAB-PROGRAM: 1
1 Wrote a program to smilate working of stack using
  an array with the following push, pop, Display
  The program should present the anellow using turing.
  #include est dio . h >
  # define STACK - SIZE 5
  int tops - 1;
   int 3[10];
   int item;
  word push ()
   { if (top = STACK_SIZE -1) al signal sale rates as
        Printf (" stack overflow | n");
   ent pop ()
    if (top = = -1)
     setum +;
   void display ()
    int ?;
    1 (top == -1)
    Printf ("Stack is Emptylin);
     retorn;
```

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Print (" Contents of the stack h");
 for (i=top; i>=0; i--)
  & prints (" -1 d (0", scit);
4
  void main ()
   int choice;
   drsor();
  for (;;)
    printt ("In 1: push In 2: pop In 3: display In");
    printf (" Enter the choice In");
     scart (" (od", & choice);
    Switch (choice)
  3
   case 1: printf ("Entre the stem to be insulted
          scanf (". (.d", & iten);
          push ();
          break;
  Case 2: "tem - deleted = pop();
           if (item-deleted == -1)
        printf ( Stack is impty (n ");
          Use
        printf (" item deleted is ofod [n", item_deleted);
  Case 3: display ();
            break ;
    default: exit (0);
       get-ch();
```