```
WAP, to rimulate the working of stack using our array
  with the following:
 a) Push
  6] Pop
 c.) Distay.
  The peopleum should paint appropriate messages for stack
  ovaflar, stack underflore.
 #include extelio. h7
 # define SIZE 3
, tut teh = -1;
  void push (int [], int);
  int hop (int []);
  boid display (int []);
  int main ()
    int stack [SIZE];
    int choice, element!
    char ch;
             ist: must be tuped use of " fried
       fruits (" Enter your choice ( m");
        paintf ("1. Push \n");
        paint f ("2. Pop (m");
        peints ["3. Disflay \n");
        scart ("- pd", & choia);
```

```
switch (choice).
     Case 1: printf ("Enter the element to be pushed mi).
              scaref ("-1-d", & element);
             fush (stack, element);
              break;
     care 2: element = hop (stack);
               if (element = = -1)
                 print ["Stack underflow "");
               olse
                  paintf l'' Poped element is 1 d'in', element),
                break ;
      case 3: display (stade);
               break;
     default: printf ("Invalid choru ");
faintf l'Do you won't to continue: Es ");
Hush (stdin);
   sauf ("/. (", & ch);
Je while (ch = = 'y' 11 ch == 'Y');
```

```
void purh [int stack[], int de)
       printf ("estack orelytons (m");
        top++;

Ntack[top] = ele;
ent top (int stack [])
    int popele;
     if (top ===-1)
      return -1;
         topele = stack [+op];
                                    : whole i
          return popele;
                         -: here of trembered
```

```
void display (int stack[])
    printf!" The stack elements \m");
   for (i=+op; i >=0; i--)
    peint f (".1. d \m", stack [i])
 1. Pash
 2. Pop
 3. Dirplay
Enter the element to be purched: 1
Do you want to continue: y
Enter your choice:
1. Push
3. Disflay
Enter the element to pushed: 2
```

Scanned by TapScanner

Do you want to continue: y Enter your choice. t. Push 3. Dishlay stack elements Do you want to continue: y ; wight sugge to Enter your choice: Push 2. 1 op 3. Display sai turnels before Enter the element to be pushed: 3 Do you want to continue: y : vient lugy 18th Enter your choice. 1. Push 2. Pop 3. Dishlay and the same stack elements

Do you want to continue: y Enter your choice: 2. Pop 3. Disflay Poped element is 3 Do you want to sontinue: y Enter your choice: 1. Push 3. Display. 2. Popud element is 2 Do you want to continue: y Enter your choice: 1. Push 3. Display Poped clement is 1 mont to continue: y

Enter your choice. 1. Push 2. Pop 3. Dirfloy Stack Under flow Dor you want to continue: in