```
23/09
```

Write a program to Simulate the working of Stack using an averay with the following:

a) Phish

b) Pop

9 Display

The program should print appropriate messages for stack overflow, stack underflow.

to upstoodd these

# include < stdio. h>

# include <process.h>

# include < conio.h>

# define STACK-SIZE 5

int top = -1;

int s[10];

Put item;

void push ()

if (top = = STACK\_SIZE-1).

E print ("Stack overflow \n");

top = top+ 1; s[top) = item;

```
int top ()
  octurn S[top--];
void display ()
  if (top = = -1)
    print ("stack empty In");
  print ( "contents of stack in");
   for Ci=o; ic= top; itt)
     print ( " / od \ n ", S[i]);
Void main ()
  int item deleted;
  int Choice;
    print ["In1. Push In2. Pop In3. Display
             In4. exit)
    print ("Enter the choice (n");
    Scanf (" 1.d", & choice);
```

```
switch (choice)
 Case 1: print (" Enter the "tern to be inserted in");
          Scary (" 1.d", &item);
          push ();
          break ;
Case 2: item_deleted = pop();
          if (Hem_deleted = = -1)
          print ("stack is empty \n");
         else
         print ("Hern deleted is %. dln", item_
                deleted);
           break;
 Case 3: display();
           break;
default: exit(0);
```