write a program to stimulate the working of stack using and any including push, pop, display program strandalisplay appropriate.

Hinclude < stdio.h>

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int top = -1:

toefine & STACK\_SIZE 5

int top = -1;

int size = s[10];

int item;

void push()

{.

if (top == stack - SIZE - 1)

printf(" stack overflow \n");

return;

top = tap + 1; s[top] = item;

? } inf pop () {

```
else
return s [tops-]
void display()
 int i;
(A (top == -1)
  printf (" stack empty ");
  return;
printf ("contents of stack in");
for ( i=top; i>=0; i--)
 E printf (" rd in" is [i])
```

```
int main ()
    int item-deleted;
      int choice;
   for (j)
   I print f ( "in I : push 2. Pop! 3. display.
               4. exi + m 1);
  printf ("enter Choic In");
   scanf ("/d", Dehoice )
   Switch (choice)
       d case 1: print ('Enter Item! 1);
                scanf ("1-d" & item);
                push ();
                break;
      case 2: item_deleted = pop()
if (item_deleted == -1)
               printf("stack, empty in")
           else
           print (" item de leted is 1.d in"
                     Hem_ deleterd);
```

```
break;

case 3: display ();

break;

default: emit()

getch ()
```