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Lab Brogeram - 1
BI) Write a program to simulate the working of stack using sta away with puts. DOP and display. The program should print appropriate perogram autputs for stack underflow and executions.
   #include < stdio. h>
   #include <
   #define STACK_SIZES
    int top = -1 :
   int s[10]:
   int item:
   void puch ()
     if (top == STACK_SIZE-1)
       { pountf(" Stack oncerflow \n");
            netwen
 top=top+1;
   S[top] = item;
   int pop()
   [ if ( top = = -1)
  rutium -1:
```

```
return s[top--];
Void dieplay()
        punts("Stack is empty");
   2 (top==-1)
  perintfl' Contents of the stack are");
for (1:0: i < - top; i++)

perintfl" %d \n", S[i]);
  void main U
   int Stem_deleted:
   Int choice;
  for(;;)
    perint[(" In 1. Rush In 2. Pop In 3. Desplay
 printfl" In Enter your choice");
switch (choice).
scanfl" ".d In", & choice);
switch (choice)
    inserted in ");
   scarif (" 1.d", &item):
   push ();
```

bouck;
case 2: perint
them doloted = a allo
eflitem_deleted == -1) printf ("Stack is empty");
print (" Stack is make")
CTOL.
perint[1" grem deleted is % d \n", item_deleted);
bruak;
case 3: display();
bounk;
delant e a of total
default: exit (0);
7 3 1