DS LAB PROLEARY 0-1) Write a program to shoulde the weeken following a) Rush b) Pop c) Display The progress should print appropriate mossings for stack overflow, stack Hinclude (Stdioh) # define size 3 int top = - 1; void push (int [] int); int pop (int[]); void display (int []).

int man (int agge, chan \* aggu) int stack (size]. int Choice, element; chan ch; do printf ("Enter your choice \n"); printf (" 1. Push \n"). mintf (" 2. Pop \n"). printfl" 3. Bisplay In"); scant ( " of od" & choice). Switch (choice) case 1" prints (" Enter the elem

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NAME : ANSHUL H. SURANA
                                     USN°1BN19CSO20
 scanfl "olod", & element).
 push ( stack, element).
 break;
 case 1: element = pop(stack);
         if (element = = -1).
         printf ("Stack Underflow").
         else
       printf (" poped element is olod In", element).
        break .
 cose3° display (stack);
         break;
   défault : prints 14 dovalid choice ").
 printe (" Do you want to continue": \n");
 fflush (stdin);
  scant ( " o/oc", &ch);
   while (ch = 'y' 11 ch = 'Y');
   return 0;
void push (int stack [] int ele)

if ( top== size-1)
     & printf (" Stack Overtlow");
    else
      Stack [top] = ele .
                                            Arshal H. Sman
```

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NAME : ANCHOL H CUPANA
Otto: IBMIACTOOD
int pop (mt stack [])
     int popele;
     if ( top = = -1)
        Return - 1;
        else
            popele = Stack [top];
            return (popele);
                   Stack []
void display lint
      printle 1" The stack elements In");
       for ( = top; i7=0; 1--)
            printf (" olod It", stack [1]).
                                             Arshal W. Car
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