```
Hinclude <stdio-h>
                                                 VARRA CHARAN
# include < stdibh>
                                                 1BM19CS178
# define SIZE 5
                                                            ; adacsay
int top =1;
int stack (SIZE);
                                                          alwa sida
void push (intere)
                                                   (1-3-512==9.3) 41
 if (is Func))
                                                         106601
print f ("The stack is full h");
                                                           ; 5H1J1J37
                                                        Void display()
e150
                                                      IF (is Emply))
 top++;
                                 Print ["The Stack is empty/n"],
stack [top] = ele;
                                                               9219
                                  Printf ("THE ELEMENTS ONE IN");
int POPU
                                       For (int 1=0; ic = top; itt)
if (is Empty())
                                      bring ( (colo 9/4", stack());
   return o;
  e1se
   return stack [top --];
                                                            int main()
                                                           (9 Le 1 3 M)
 int is Empty()
                                                            (1) 91111
   if (top == -1)
   Steturn 1;
```

```
SFROMME,
 returno;
int is Full ()
                                                   Cons and day
{
if (top = = 512E-1)
    return i
  cise
  returno;
                                    1/ THE STOCK IS FULLY
Void display()
if (is Empty())
  Printf ("The stack is empty \n");
  eise
  Printf ("The elements are \n");
                                                             US.
   for Cint i = 0; ic = top; itt)
                                                      : SEMPEY())
  printf ("olo din", stack(i));
 3
int main ()
int Gd, P;
While (1)
```

c. call 12:

eise

```
printf ("Enter Command In 1 - pushin 2 - popin 3 - Display 4- Exitly);
scanf ("% d", 8c).
switch (c)
case 1: print ("Enter an element In" );
      scanf ("010d", &d);
    push (d);
   break;
Case 2: P = POP ();
   if (P= =0)
 print f ("stack is empty Ih");
  els e
  printf ("Element removed successfully lh");
       break;
(ase 3: display ();
    break;
case 4: exit (0);
default: printf ("Invalid input ("));
return o;
```