AB-1 Program

LOO JA K 1BM19(SII)

WAP to simulate working of stack aising

#Include 45tdio. h) Hinclude <stdlibing

# define size 3 tht top=-1

Int stack[9] ZEJ;

rold push (int ele)

if (top = = 593e-1)

print("The stack is full (");

toptt; stack(top)=ele;

noturno;

else

DATE: '

```
point (" Element removed is: % \n", stack[top--]).
  return!
void display ()
  i (top = = -1)
  print ("The stack is empty ");
   print ("The dements are ");
   printf ["o[.d\n", stack[i]);
int man().
intoga, P;
 rotile (1=+
 print ("Enter command ) t 1- push t 2-popt
   3-Display 1 + - Enit (n");
 scoul ( ter ( d", &c);
  moitch (1)
    case 1: print ("Enter an element (");
                                          Succia
```

POOJAIS scan (" " .d", & d); 1BM19C8111 push(d); break; case 2; p= pop(); ( p==0) krinth ("stack is empty \n"); printf ("In Element acmoved successfully In"); break; ease 3: display (); briak; case 4; break; default; prints ("quvalid input)"); return 0; Enter command 1-push 2-pop 3-Display 4-Exit Enter an element Enter command 1-push 2-pop 3-Display 4-Enit Enter an element 20 Enter command 1-push 2-pop 3-Display 4-Enit Enter air element 10

	DAIL. FAGE:
	Enter command 1-push 2-pop 3-Display +-Exil
*	The elements are
	30
	20
	to Manager a design the same
	Enter command 1-push 2-pop 3-Display 4-Enit
EL WILL	Enter an element
	40
*	stack overflow
	theres
	Enter command 1-push 2 pop 3-Display 4-Enit
	The state of the s
	Exter am element Element removed is: 10
	70
	8 tack
	Element removed successfully
	Entre command 1-push 2-pop 3-Display 4-Enit
	20
	Element semoved is; 20
	Element removed successfully
	Enter command 1-push a-pop 3-Display 4-exit
	1/1/1/2
	Element semoved is: 30
	there command I much a
	thter command I push 2 pap 3-display 4-Exit
8	(tack under How
	Enter command 1-push 2-pop 3-display u-Exit
	4.