GAYATHRI

4AL19CS035

E - SECTION

```
Algorithm
 steps: volo push (Int & State, Int data).
 Step3: void pap (Int & stack)
       void d8 play (int & stack)
          top = -1
 Step 6:
          Bisplay Grau the sque of the stauce
  Step 7:
           unput 592
           Should = (m+ +) malloc (size of (en+) + 59ze)
SKP 8:
           DRIPHAY Stall operation using array
SKP9:
           DB play 1. PUSH 2. POB 3. DISPLAY 4. EXIT
Sup10:
SHIP II!
              Bisplay Enter the choice
                in put ch
            Switch (Ch)
              cord I: D8 play Enter your "/p to push
                            input clara
                             push (stock, data)
                             break
                       pop (Stack)
             con a:
                         break
                        offplay (Shark)
             CON 3:
                          break
                         Display Ex97 POINT
             COH H:
                           Both (a) break.
                          D8 play Please Enter a valid
             defaut :
                           Choose (1/2/3/4)
             wille (ch ! = 4)
```

Stepla: Stop

yourd push (Int & Stack, Int data) Step 1: Entry Step 2: 1f (hop>= sPze-1) Display Stack ovceflow return Skp3: top++ Step4: Stack[top] = aloha Steps: D8 play puhed 1 d Into the stack output Stack [top] SRP7: return void pop (int # stalk) SKP1: Entry supa: if (hop (=-1) D&play Stark undeflow D8 play popped -1-d from the state output Starr(top) SHOWS: Shows(top) = 0 top - -Step 3: return vold deplay (Int *Stack) Step 1: Enry SKP 7: INTP If (top = =eD D&play Star undes/How Step3'. return Osplay Stark contains Eloe SHOP for (9 = top, 9 = 0, 9 - -) Supy: return output shack CPJ

flowchart [vold puch (int & stark, 10+ data) Yord popeint & start months west of dat Topast I way & The They of the Thies 1 5926 / mars : 742 Enter State (in+ x) maller (one of Cot) to 134 Shalk operation Suffer the suit The ander 8 space Enter 1907 Hay bourse, and Ospical Street concell

vold push Cent & Stack, Int data) (Entry) V top++ vold pop (int * shalk) Falm popped and from the se V Deturn)

display (int & stack) True Shell con rains State Blodel flows Port?= top; 9>=0; 9--) (return)