```
Week-3
                      STACKS
(1) Weste a paragram to estimate the coositing of stack
           away with the following
@ RUN
              (B) 90P
                          @ display
# Soclede (statio.h)
 world push (Port);
  vold pop();
  world displayer;
  int stack (stre); top = -1;
  vold push Chit value)
 { ef (top == 872=1)}
        pf ('evertlawe);
      top = top +1;
       Stack Etop) = value;
       oft " To sea theor successful");
```

```
3 () god poor
       * (top==-1) }
            possible (" stack is empty");
     else &
         possett C The deleted and element & 1.d", stack (top))
          top= top-1;
 world display (X
     14 (top==-1)
           possition stack is empty );
    else?
       for (8-to: 50-4-)
             palet (1/13: Stack (1));
But mais () {
    Port value, choice;
    whole (1) &
         pf("1. push, 2. POP, 3. Desplay, 4. Ext");
        of (" 1.d" & choice);
        switch (choice) }
         case 1: pf ( Enter a value");
                  st ("Yd", & value);
                  push (value);
                  boleak;
```

```
case 2: pop();
                                                           2) WAP to convent a given salled powenthised inflex
                                                               and thematic exponession to postfix exponession
            boccats;
     case 3: displayes;
                                                            # Include ( stollo.h)
           boreak;
                                                           # Soclude (states h)
    case 4: ext(0);
                                                           # define MAX-SIRR 100
   default : pter wowng soputary
                                                            type det stock &
                                                                   chase items [NAN-SDZE];
But top;
oletput:
                                                                 } stack;
    stack = stack (5)
                                                            vold push (stack s, chanc)
    Stack push(1)
                                                                 if (s -> top == MAX + SPER-1) $
    Stack push(2)
                                                                 possité ( stack ovortlan);
    stack push(B)
                                                                   sustain;
    stuck. display Of
    stack pop()
                                                              s > Ptems [++(s > top)]=c;
  I pushed into stack
                                                             chan pop (stackins) f
 2 pushed Sato stacks
                                                                if (s → top ==-1){
 3 pushed sinto stack
                                                                    pf(" stack ounderflow");
* stack elements:
                                                              deathorn s -> Hems (Cs +top) - );
poped Hem: 3.
                                                             Port parecedence (char o proceedor) &
                                                               operator == +111 operator == 1-){
                                                                  Stetus -1).
                                                             else'f (operator == '* 11 operator "/ )f
```

3 election as

vold softe depostfee Cehoout softe , those + postfee) , stack stack; Stack . top =- 1; int ?=0, 5=0; while (infr () ! = 1/0') } of (Salnum (80 Hz (3))) postfa (3++) = 8 fa (3+4); else # (& fiz (2)==10) } push (ystact. Infla (8+4); else of Chaffe (?) == ')') } while (stack top != 1 yb stuck . Hemlstack top) pastack (grace) a pop (grstack); If Cotach top Le - LOST 8++: else & white cstack. top != 11 ys poweredence (stuck. Hens (stuck top)) >= parecedence (Softa (3)) } postfiz (3++) = pop listuet); push (4 stack , Poffer Clyst); while (stack top !) postfiz Cit+)=pop Gystuck);

chair () f

that infly [MAX-SDZE];

chair postfly [MAX-SDZE];

posint ("Enter infly capacession"))

scanf("X5", pinfly);

infly-to-postfly (infly, postfly);

posint ("Postfly exposession: X5", postfly);

section 0;

Ofp:
Porter infla expression: (A+B)*(-(Ole)
postfla expression: AB+ ct De/-

to below the course of

Charles 160 Haley

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