Not create structure itemd dail c with mentines item-name 18/12/2003 aradutity, price total amount. calculate party price. # indude < stdio. N> # include < std (16. n> struct item\_details char : tem-name [20]; Hoch awanting: flood price; float total amount 73 int maine 1 Street stemadedails ; 1 = { "pon'1, 100.00, \$6.00, 00.00}; Print & (1. . 2 & No. 1, Sl. Price), Print f ( or ... . 2 f 1 n), El. concentity; Print & (SI. item same); SI. total\_temount = SI.price & SI quant'ity; prints (114, 2+, 51 . to tel-amount ); Struct 'tem details 72 = ("papad", 110,00, 100,00,00,00) 52. total-amount = 52. price \$52. auantits; float total expense = S1. total anount + 52. total-anount; print ( total party expense: 1.24 ", total-expense); returno: autput \* total party expense: 36000.00

2) Creake a structure with name student with structure member: name, uln, gradelist of sent, sens. The Hudust will be promoted to 3rd setnents - it helshe is not having backlogs of enedit count ==16. #indud1 < sadioh> Struct student { char name (20); int whi int com [ [] intrema (s); int main () Stract student S1 = {"aaa", 1001, {2,2,3,1}, {2,1,1,2}}; int sum; for limb 120; 124 ; ++;) { Jum = sum + sus s1. sem 1 [i] + s1. sem 2 [i]; Print + &"namp: 1.5 Ph", 51. nam ); printt L'usacems . 1. d/n"; se. usn); Print+ (" total credit " · '( d in", sum); if (Sun x 16) s Printl ("the student is eligible for grd sementer"); else h · printfl" the stedent is not digible for 3rd sunepler" return 0;

output: name: aaa un: 1001 total credit = 14 the student is digital for 3rd consister 4) eriven an array arrE) containing N distances of the mch-felt system, such that each element of the array represents a inch-feet distances wing structure ex; what: our c) = { {660,3.7}, {6,8}};, output; feet sum: 126 In ch Com: (7.2) # mcludezstdio, h> # includex stalib. NS Car of him to there were 00-28,62 . . . 10id arrade (\$100£arr[3](2)) { : (B1202 ... float feet sum; float inch-sun; mayor who we some in the for (int i=0; i(3; ++i) feet-sum= tell-sum tarr(i) (o); inch-sun = inch-sum tarr (i)(1); print & { "feet (um: 16.28 \n", feet \_sum); print + (" inchsum: ". et (n); inch=sun); int mains float arra (5) (2) = ((10.00, 3.70), (19.00, 16.00, 8.00)); an calc (arrs); returno; : Lug Luo feetsum: 31.00 ind sum: 17.80

```
pointer program
# include < stdio.h>
int main()
     int var= 10;
     int *ptr;
      ptr=bran;
     printf(" var value = rd \n", var);
     printf (" var address = /u/n; & var);
     printf("ptr=Yuln", ptr);
     brintf (a & bp== (dln1) = btr);
     printf ("pptr= vuln", & ptr);
Juggero
     vot value = 10
     var address = 5422300
     ptr = 6422300
     * ptr = Lo
     & ptr = 6422296
pointer and function progrem
 #indeede <stdio.h)
 # indude < stdlib.h>
  void swap (int *x, int *x)
    {
         intt;
         t= * x;
         *X = *Y;
         * 4 = t;
    int main ()
          int n1, n2;
          print f ("cuter num!: ");
           scanf ("1.d", pn1);
           print ("enter num2: ");
           Sconf("1.d,"4 112);
```

printl (6 top swapping: 1.d	/d (n", n1, n2);
(Gn(Bn2);	
printf ( " after swapping: 1.d 1.	d (n", n1, n2);
} 0	
	and date
away - element insertion in a	specified position and deletion
in specified position, do the	is using functions.
# include < stdio.h>	
int arr [s];	
void insertant (inti, int v)&	
( CON ( ) Z = V'	v v v v v v v v v v v v v v v v v v v
} OUL [!] = A!	, 1 t
void deletear (inti).	•
for (int :=0; i <s; i++)<="" td=""><td></td></s;>	
ſ	· · · · · · · · · · · · · · · · · · ·
printer c inaca, ra,	value: 1.d/mig;, arrEiD;
<b>}</b> }	
int main()	
4	
insert arm (0,61);	
insort am (1,95);	
*, nger tar (2,62);	
displayan (); deleant (2))	
q:/blondow();	
λ	
indexio, Nature: 61	nder o value 61:
index 1, value: 95	(nder 1) value 91.
induse, value: 62	onder 2, value 0
indexs, value , o.	malere a
indexel, value to	index H, value O'

```
#include <stdio.h>
 2
     #include <stdlib.h>
3
4
     struct item details
 5
6
         char item name[20];
         float quantity;
 8
         float price;
         float total;
 9
     };
10
11
12
     int main()
     7
13
         struct item_details s1 = {"paneer", 100.00, 250.00, 00.00};
14
15
16
         s1.total = s1.price * s1.quantity;
17
         // printf("%.2f", s1.total);
18
         struct item_details s2 = {"papad", 110.00, 100.00, 00.00};
19
20
         s2.total = s2.price * s2.quantity;
21
         float total_expense = s1.total + s2.total;
22
         printf("total party expenses:%.2f", total_expense);
23
24
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL **PORTS** [Running] cd "d:\3rd\_sem\C learning\" && gcc l1.c total party expenses:36000.00 [Done] exited with code=0 in 2.204 seconds

```
rd_sem > C learning > 🧲 l2.c > ...
      #include <stdio.h>
 2
      struct student
 4
5
          char name[20];
          int usn;
6
7
          int sem1[4];
          int sem2[4];
8
9
     };
10
     int main()
11
12
         struct student s1 = {"aaa", 1001, {2, 2, 3, 1}, {2, 1, 1, 2}};
13
         int sum = 0;
14
         for (int i = 0; i < 4; i++)
15
16
         {
              sum = sum + s1.sem1[i] + s1.sem2[i];
17
18
19
         printf("name:%s\n", s1.name);
20
         printf("usn:%d\n", s1.usn);
         printf("total_credit:%d\n", sum);
21
22
         if (sum < 16)
23
24
         {
             printf("the student is eligible for 3rd sem");
25
26
         else
27
28
             printf("the student is not eligible for 3rd sem");
29
30
31
```

[Running] cd "d:\3rd\_sem\C learning\" && gcc 12.c name:aaa usn:1001 total credit:14 the student is eligible for 3rd sem [Done] exited with code=0 in 1.275 seconds

```
#include<stdlib.h>
3
     void arrcalc(float arr[3][2])
4
5
         float feet sum;
6
         float inch_sum;
         for(int i=0;i<3;++i)
8
9
10
             feet_sum=feet_sum+arr[i][0];
             inch_sum=inch_sum+arr[i][1];
11
12
13
         printf("feetsum:%.2f\n",feet_sum);
         printf("inchsum:%.2f\n",inch_sum);
14
15
16
17
     int main()
18
         float arr1[3][2]={{10.00,3.70},{15.00,5.50},{6.00,8.00}};
19
         arrcalc(arr1);
20
         /*float sup[3][2]={{2.00,6.62},{2.00,8.49},{1.00,2.95}};
21
         arrcalc(sup);*/
22
         return 0;
23
24
```

#include<stdio.h>

1

```
[Running] cd "d:\3rd_sem\C learning\" &
feetsum: 31.00
inchsum:17.20
[Done] exited with code=0 in 1.943 secon
```

```
#include<stdio.h>
 2
 3
     int main()
 4
 5
          int var=10;
 6
         int *ptr;
 7
         ptr=&var;
 8
 9
          printf("var value=%d\n",var);
          printf("var address=%u\n",&var);
10
          printf("ptr=%u\n",ptr);
11
          printf("*ptr=%d\n",*ptr);
12
          printf("&ptr=%u\n",&ptr);
13
14
```

```
[Running] cd "d:\3rd sem\C learning
var value=10
var address=6422300
ptr=6422300
*ptr=10
&ptr=6422296
```

[Done] exited with code=0 in 1.424 s

```
#include<stdio.h>
 1
 2
      int arr[5];
 3
 4
     void insertarr(int i,int v)
 5
 6
          arr[i]=v;
 7
 8
     void deletearr(int i)
 9
10
          arr[i]=0;
11
12
13
     void displayarr()
14
15
      {
16
          for (int i=0;i<5;i++)
17
              printf("index: %d , value: %d\n",i,arr[i]);
18
19
20
21
      int main()
22
23
          insertarr(0,65);
24
          insertarr(1,95);
25
          insertarr(2,62);
26
          displayarr();
27
          deletearr(2);
28
          displayarr();
29
30
31
```

```
index: 0 , value: 65
index: 1 , value: 95
index: 2 , value: 62
index: 3 , value: 0
index: 4 , value: 0
index: 0 , value: 65
index: 1 , value: 95
index: 2 , value: 0
index: 3 , value: 0
index: 4 , value: 0
[Done] exited with code=0 in
```

[Kullittig] ca a./sta\_sem/c r