

## INSTITUTE OF AERONAUTICAL ENGINEERING

Dundigal, Hyderabad – 500 043

## LABORATORY WORK SHEET

Date: 25 04 22

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Roll No: 21951A6754 Name: P.JYOTHI PRASE	NNA
Exp No: 08 Experiment Name: STRUCTURES	AND UNIONS
DAVES SANDAL HATION.	, 1 b p 4 + 1

## DAY TO DAY EVALUATION:

. 1	Preparation	Algorithm		Program Execution	W 70	Total
		Performance in the Lab	Calculations and Graphs	Results and Error		
Max. Marks	4	sico forma	Carrier 4 is val-	ms Ames	<sup>4</sup> 15i	20
Obtained	4	4	ч	у	1, 3,	19

: (1. ) ( ... ) Signature of Lab I/C

## START WRITING FROM HERE:

write a c program that uses functions to performs the following operations falet. Best complex man; 5 6 1] Reading ia complex numbers. 2) Writing a complex mumber 3] Addition & subtraction of two complex numbers. NOTE: Represent complex number using a istructives and the Maria But I done or Interpolities #include <station> in the term of the period of the contract of the #include < string.h> d include this his struct complex & distributed in the still int ris Latin minus The C1, C2, C3; void add (struct complex ci, struct complex c2); 11 11 11 11 Void sub (struct complex CI, shuct complex (2); void main() { printf ("In Enter first complex num: "); 28 18 W - St & 1 5 8 scanf (".j.d .i.a. & cl. , & cl. i); printfl"In Enter second complex num: "); scanf ( 1.d.1.d", & (2.1, & (2.1);

```
printf ("In Enter first complex num: "Ind + i.l.d", clir, cli);
printf ("In Enter second complex num: 1.d+i.l.d", c2-r, c2-i);
add (ci,cz);
sub (c1, c2);
                                               14.14
               WINT HUME J
void add Catruct complex custruct complex c2) &
C3.1 = C1. Y+C2.Y;
C3.1 = C1.1+ C2.13
printf ("In Add of two comp num is Ital + itled, C3. T, C3.1);
void sub(struct complex c1, struct complex c2)?
C3. T = C1. Y - C2: Y;
C3.1 = C1.1 - C2.1;
printf ("In sub of two comp num is -1 - d - 1 -1 -d", c3-1, c3-1);
INPUT:
Enter first complex num: 49 First complex num: 4+19
                              Second complex num: 5+16
Enter second complex num: 56
                             Add of two comp num is 9+15
                              Sub of two compnum is -1-13
Write a c program to compute the monthly pay of 100
employees using each iemployees name, basic pay. The DA is
computed as 52-1. of the basic pay. Gross - salary (basic pay+DA)
Print the employees name and gross salary.
# include < stdio.h>
                                              auch ein flech
struct employees
                                                      I I at July
char name [20];
float basic;
float da; (1) xilquir hull to xilquir multiplic has
float gross; it sugars tout in religions tout
e[s]:
void main () ? (t'anna mapas tent odas at "Illa
int i;
for (i=0; i<5; i++)
scanf ("1.5.1.+", e[i].name, ele[i].basic);
                                             " F. J. ( . J. ) ] . . .
```

```
Hor (1=0)1<5; (1-1) & primary part - 10 - 11/1/11 1 13/1 11/11
   e[i]-da=52.0/100 re[i].basic;
                                          Take deligator about their co
   e[i].gross =e[i].date[i].basic;
   printi("In name = 1.5 gross = 1.1" e[i].name, e[i].gross);
               ter en gentern Beitenberrieb Graffer ber ber ber ber
                      the winder the expected to the forms
   : TUPINE
                        OUT PUT!
                                       added in his inten
                        name = Asma gross = 3496.000000
   Asma
   2300
                                       gross = 48640.000000
                        name = Afroz
   Afroz
                                      gross = 22800.000000
                        hame = Jyothi
   32000
                        name = Krishna gross = 18240.000000
   Jyothi
                        name = Joshna gross = 33400.000000
   15000
   Krishna
                                           character and a second
   12000
                                                      CTULLY CORE
   Joshna
                                                    etra tric [IL];
   22000
c. Greate a book structure containing boo-id, little, author name
   and price. Write a Cprogram to pass a structure as a function
   orguement and print the book idelails.
                               My (it was " Synthi Property );
   #includesoldio.h>
                                          #indude<string.h>
  struct book & if you as short, who is appropriate made to) yet me
   int bookid;
                                   paint ( not it mone whose is );
   char title [30];
                           it applies with a zeroble - 1st och et par it.
   char author [20];
                                  tober I made to a doubter subtree is
   float price;
                                       is twittener Mit. Wires
   void print_book (struct book bi);
   void main() {
   Struck book bis
   printf ("In Enter book details:");
   scanf (".1.d. 1.s. 1.s. 1.-1", & bi. bookid , bi. title, $61. author, & bi. price);
   print-book(b1);
   void print book (struct book bi) {
   printf ("In Book details: . I-alt -1-slt . 1-slt -1-4", abi-bookid, & bi-title,
                                          8 bl-author, & bi-price);
```

```
INPUT: Enter book details: 201 c programming Balaguruswamy 230
   OUTPUT: Book delails: 201 c programming Balagurusbamy
                16 July of 230,000,000, 17 1 July of me 11/2 Haber
d' Create a union containing 6 string; name, home-vaddress,
   hostel-vaddress, city, state & zip. Write acprogram 20
   display your present address.
   # include station >
   #include estring harm some gande some
   union details Ent more any intoyl subst
   char name [20] 2012 12 and mind amount
   char home 2 address [30]; cap with a source
   char hostel-address [30];
   char city [10];
   char state [10];
   int procede; with the sale permitter a format and is the
   all the first or and and a series of a series for all the stands with a first
                        - 1127 12 1 1 12 mile market partie of the contract of
   void main() {
   stropy (a-name, "Jyothi Drasanna");
   printf ("In-1-5", a.name);
                                             Calquid Estimate
   stropy (a.home-address, "1-32/2, NGO's Colony");
   printf ("Inots", a home-address);
                                                    Llai Augh ful
   stropy (a-hostel-address, "Jare college");
                                              100 1 William 15:15
   printf ("In-1.s", a. hostel-address);
                                                    tibel pace,
   strepy (a.city, "tlyderabad");
                                    OUTPUT:
   printf ("In-1-s", a-city);
                                    Tyothi Prasanna him him
   stropy (a·state, "Telangana");
                                    1-32/2, NGO'S COLONY
   printf ("In1.s", a state);
                                    Tare college
   a pincode = 501401 %
                                    +lyderabad
   printf (") nerd; appincode); Telangana
   retumo;
                                     501401
   titum no otto it it
```