Name - Sayani Adak.

306

ntroduct.

Kung su

## **Adamas University**



## **Laboratory Index**

Student Name: SAYANI ADAK

University Roll No: UGT/02/BTCSEAIML/2023/040

Course Name/Code: CSE 11001

SI. No	Date	Program Name	Signature
1	5/1/24	10 C. programmes	
	21.12	Drite a C programm to print will be	
a		normal.	
b		write a c. program to print any integors and floor no.	
<u>_</u>		integar and float no integar and float no calculate add, cal, mil, div, mod of any 2 Portegor number.	1000
d		Portagori number.	1000
d		write ac program to print availage of 5 floor number	1500
2		writer or a productor	0/1
f		write of C program (a+6) - x (a+6)	3 6
of		write as a program to find pow of any number. Write on a program to find squ	-
h			
;		write a c programme to find.	an,
;		write, a c program to find was of a triangle.	/
		wan of a tribung	
	The same of		

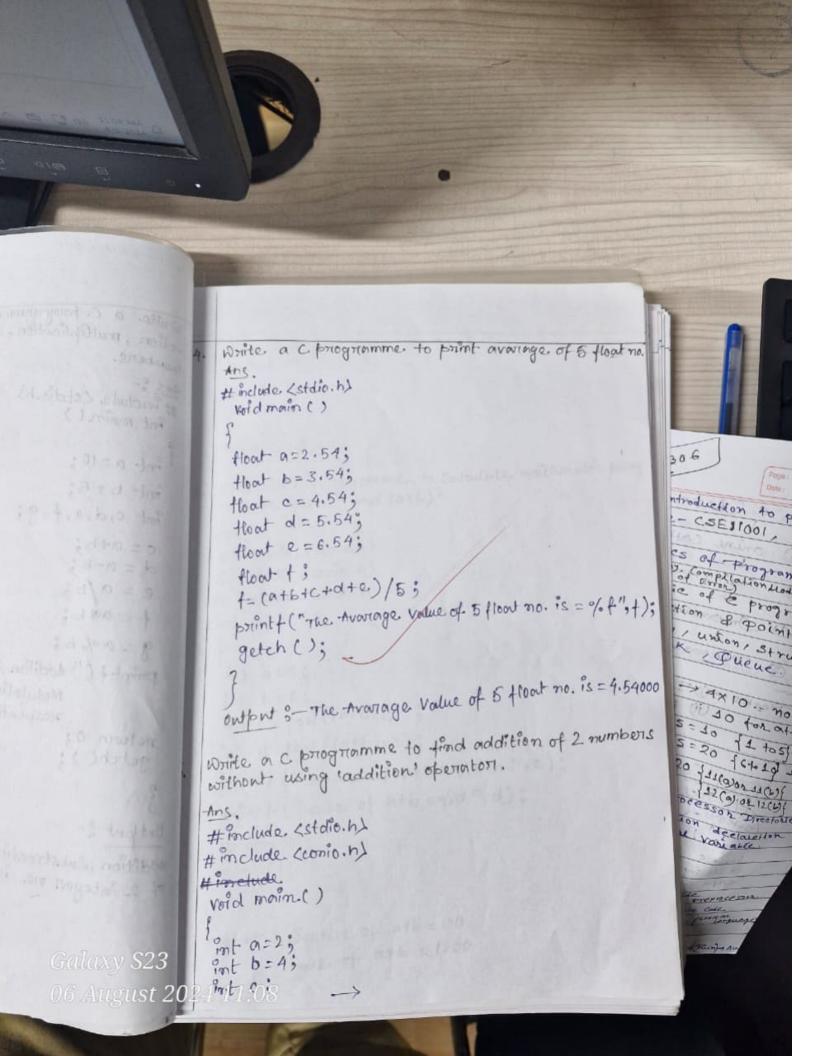
Name - Sayani Adak.
Roll - UG1/02/GTCSEAIML/2013/040

ec -		PROGRAM TITLE	SIGNATUTRE
11	19/02/24	Module -1 (Basic Program)	70
-	19/02/24	Module -1 (Basic Program)  Module -2 (it-else program)	((v))
	19/02/24	Module -3 (for loop)	PA. Y
14	10/02/24	Module -4 (while Goop)	1000
15	10/02/24	Module - 5 (Break & Continue)	1300
16	10/02/24	Module - 6 (Function)	201
17	05/04/24	Module - 7 (Recursion)	
18	05/04/24	module - 8 (Annay)	
19	05/04/24	Module - 9 (Strung)	
20	05/04/24	Module - 10 (Pointer)	
	1		
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-			

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netwin o; Square moof of 25 is:5 output Square 2001 of - 100.0 is: 10.0

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atroduction to prop - CSE11001

of Erron Horder

e of e programy HEON & Pointer

L'unton/structu

-> 4×10. no opia 30 for atendence

5=20 {1 tos/mo opthe 5=20 {c+10 Jo(a) or 10(0)

cesson Directors

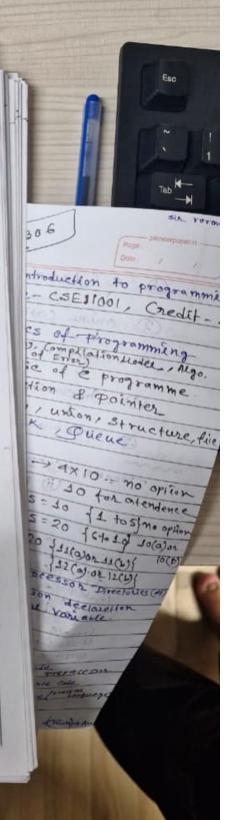
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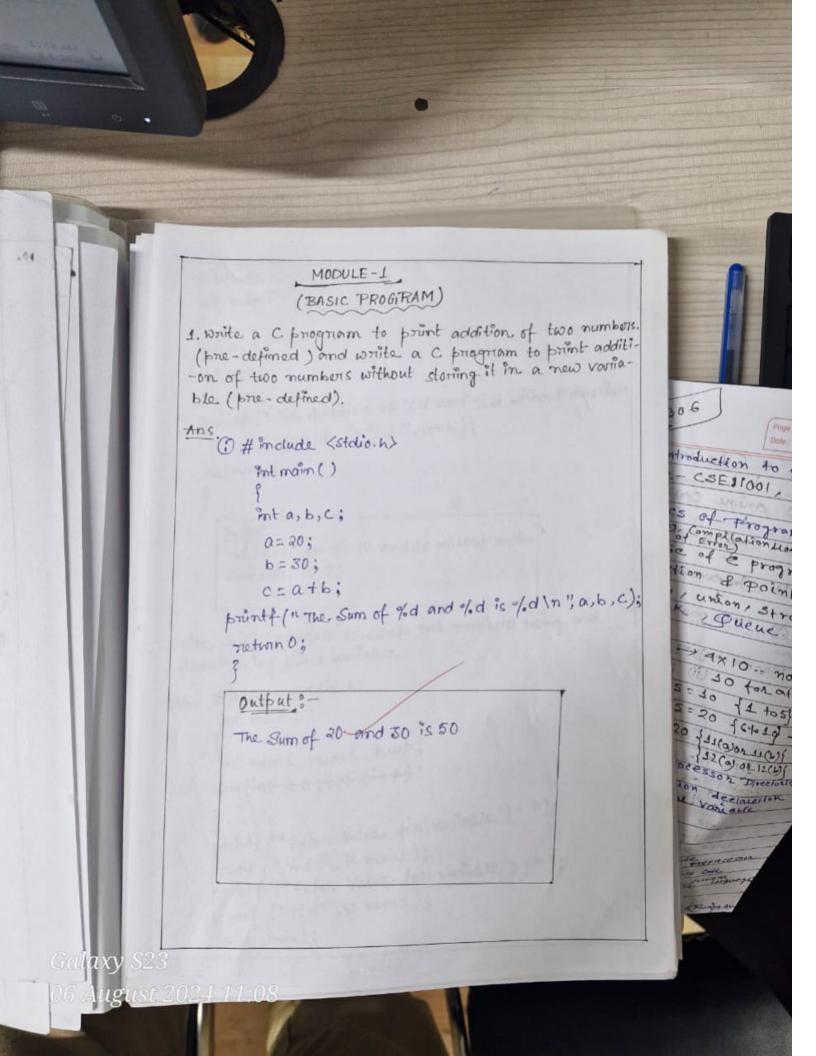
Variable

write a c. programme to calculate the area of a -triangle. Ans. #include. (stdio. h) # "mclude < math. h) int main () 306 int base = 15; Part height = 5; ntroduction to int area = (base + height)/2; - CSE11001 printf ("area of the triangle=06d", orea); es of progr netwin 0; ie of e proo getch (); tion & Pois / unton / st output: area of the triangle = 37 K Gueue -> 4×10 - 7 10 toro 5:10 11 to: 5=20 164019 50 771(0)or 71(F) \$ 12 (a) 0 x 12(b) Wang sole Galaxy S23 **06**|August 2024 11:08

write a C programme to calculate addition, cubitrin. -ction, multiplication, division, modulation of 2 integor numbers. Darman Jak Ans o-# include (stdio.h) Post main () IATA 03 Homing 306 1 int a = 10; int b=5; ntroduction to 1- CSE11001 int c, d, e, f, 9; c = a+b; cs of trogram d = a-b; ie of e progr e = a/b3 HEON & POINK f = a+b; / unton/ stru K Pueue print f (" Addition Substraction, Division, Multiplication, Modulation of 2 integran no. is = %d %d %d %d %d %d -> 4x10 - no nespectively", c, d,e, t, 9); 10 for ate 5:30 netwin 0; 5=20 {1 tosy getch(); 50 \$71(0)0×77(5){ (32 (a) 05 12 (b) ocessor Directories Addition, Substraction, Division, Multiplication, Modulation ion declaretton of 2 integral no. is = 15, 5, 2, 50, 0 nespectively. of French Au Galaxy S23 06 August 2024 11:08

```
printf ("Even");
                              output
   else
                              Enter a no. to check odd
                              on even 3
   print ("Odd");
                              Odd Fran.
   retwin 0;
913. arite a Cprogram to find largest of twee
            a) using only it statement.
             b) Using only if else statement.
 entegons.
 Ans.
@#include (stdio.h)
  int main ()
   print ("Enter three integer:"); suc); scont ("% d % d % d ", &a, &b, suc);
    it (07p 88 07c)
     brunt ("% d is largest of all", a);
   5 + ( b) on set b>c)
     print. ("% d is longest of all", b);
   dificia war exp)
                       2
```





Q6. WACP to calculate area of a circle, reactingle. Ans. # include (stdio. h) chief main () { print ("Enter the radius/n"); scont (" % + ", & radius); orea = 3.142 \* modins + modius printf ("Area of a circle = % f- In", area); 306 break: ntroduction to printf ("Enter the breadth and length m"); - CSEJIOOI scornt ("% of % of ", x breadth, x length); es of trops of Error Station Le area = breadth of length; printf ("Area of a Rectangle = % + m", wien); ic of e prog Hion & Poin / unton / Str defenut; printf ("Enter infigure wate In"); K Sueue. 7 4×10. no TO for at =10 output = 30 104.19. 11 tos Enter the madine 0 /15(0)02 72(D) 32(0):02 12(4) -2 over = 12.56 Q7. WACP to calculate (a12-b12) (a-b) 13 (a+b)12 esson Directores declarerion and (a-b) 12 Ans. # include (stdio.h) # modual (math. h) int main () scort ( " of od of od", & a, + b);

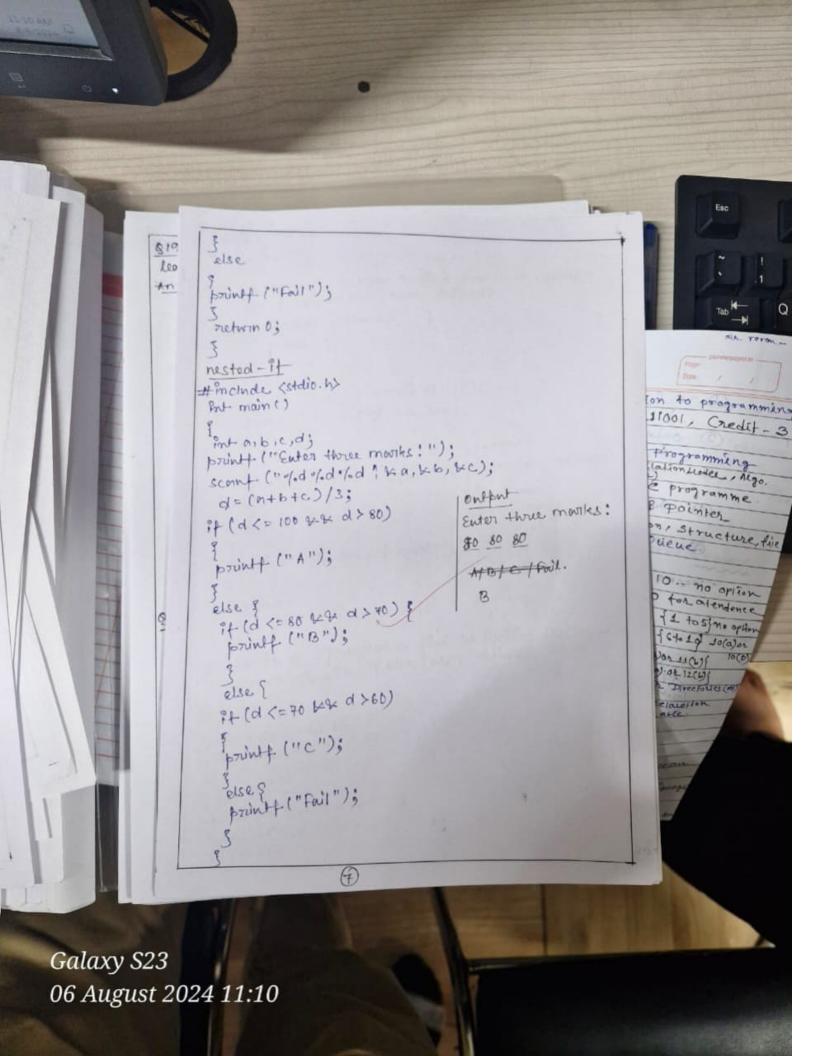
```
0= a-(-6):
               printf ("%d",c);
               getch ();
             ONPN:- 6
                                                                   306
          6. Write on C programme. to colculate writhmatic prog-
             - Tramme (a+b)2 and (a+b)3
                                                                   ntroduction to
                                                                   - CSE11001
             # include (stdio.h)
                                                                  es of trops
            # include (conio. h)
                                                                  of Error Olation Le
            # include (moth. h)
                                                                  ie of e prog
                                                                  tion & Poir
            int main ()
                                                                  / unton/ str
K Pueue.
             int a=4;
                                                                  -> ax 10. no
             int b=6;
            int c=pow((a+6),2);
                                                                    DJO for at
            int d = pow ((a+6), 3);
                                                                   = 20 11 tos
            printf ("square of atb = oldin", e);
                                                                  50 $ 21(0) ON 11(1)
                                                                        f c-10 1 d
                                                                    32 (a) 01 12(b)
            primt+ (" cube of orth = of d", d);
                                                                  on declaretten
           netwin 0;
            getch ();
          output : Square of atb = 100
                    Cube of a+6 = 1000
Galaxy.
06 August 2024 11:08
```

print ("Pasitive no."); Output Enter a no. -2 i+ (n(0) Positive no. & Negative no. printf (" regative no."); return 0; It-else # include (stdio.h) Int main () printf ("Enter a no."); Output icant ("ofod", & n); Enter a no: 3 it (m>0) } Positive no. Hegalive no. printf (" Positive no. ")) else } printf. (" regative no."); setwin 0; 817. Drute. a C program to for check wheather a number is positive, Negative on zero on not. Ans. # Pinclade (stdio. h) ant main () int a: printf ("Enter ano:");

troduction to pr CSE11001, s of trogram of Erron ation Mode e of e progra tion & Pointe , unton, stru queue. -> 4x10 - no 1 10 torate 5 = 10 {1 tos} 5=20 (0+1) 50 177(0)01 71(P) 32(0):02 12(U) ocesson Director Ton declaretton

```
print ("B");
                                     output
         it (9 <= 40 88 9 480)
                                      Enter marks of three subjects
                                      10 36 20
         printf ("c");
                                      Atotal Fail.
                                                                     306
          else
          printf (" Fail");
                                                                     ntroduction to progran
                                                                     - CSESTOOL, Credit
         retwin 0;
                                                                    es of trogramming
                                                                    of Error dion Model , Alg
        else -it
                                                                    ic of e programme
        # molnde (stdio.h)
                                                                    tion & Pointer
         int main ()
                                                                     1 unton 1 structure
                                                                     K Güene
         print (" Enter monks of 3 subjects: ");
         inta, b, c, d;
                                                                     -> 4x10 - no opison
         scont (" % d % d % d ", Ka, Kb, Kc);
                                                                      30 for atendence
                                                                      = to ft to sime opion
         d = (n+b+c)/3;
if (d <= 100 + x d > 80)
                                                                     5 = 20 f C+0 1 of Jo(a) 02
                                         Output.
                                                                     30 171(3)05 17(3)
                                         Enter marks of I subjects:
         printf ("A");
                                         90 90 95
                                                                       32(0) OF 12(D)
                                                                     ocessor Directus
                                                                     L Vanaste
         else if (d <= 80 44 d>70)
                                          A Stole Low
         print ("B");
        else if (d <= 70 KK d > 60)
         print ("C");
                             (6)
Galaxy S23
06 August 2024 11:10
```

```
printf. (" A");
 Pf (d <= 80 44 d >70)
  print ("B");
                          Output
                          Enter marks of three subjects:
 7+ (d <070 2x d>60)
                                                        306
                           20 50 40
                           MOLS / Fish.
                                                        ntroduction to prog
  print+ ("C");
                                                        - CSE11001, Ch
                           Fail
 84 (d <= 60 8x d>=0)
                                                        es of trogramma
                                                        of Error )
                                                        ic of e programs
  printf (" Fail");
                                                        Hon & Pointer
                                                         unton, structu
                                                        K Queue.
 netwin 0;
                                                        -> 4×10. no oria
                                                          1 10 for atenden
if-else
# include (stdio.h)
                                                         = 10
                                                              of 1 tosymo op
int main ()
                                                         = 20
                                                              1 C+0 1 of 10(0)00
                                                          $ 31(3)or 13(0){
 print ("Enter marks of three subjects:");
                                                          32 (a) 02 12(b)
                                                         cesson Directors
 scant (" of od of od of od ", &a, &b, &c):
                                                            declaretten
 d=(a+b+c)/3;
 if (d <=100 K# d >80)
  bruntf ("A");
 if (d<=80 60 d>70)
                  (5)
```



1. Write a Cprogram to convert a Celous temporretwil to fabrienheit temporeture (pre - defined). Ans. # include (stdio. h) int main () float C = 37, f=98.6, c, of, 6 306 C1 = ((4-32)+5)/9; fi=(c\*(9/5))+32; ntroduction - CSE11001 printf ("Fahrenheit to Celcius: 1/. f & ", C1); printf ("Colcius to Fahrenheit: % f is "f, ); es of Frogra of Error ) ic of e progr retwin 0; HEON & Point (unton/stru K Queue. Output: -Fabrenheit to Colcius: 57 -> 4×10 - no 10 for ate Celcius to fabrenheit: 98.6 5:10 {1 tosja 5=20 (1-10) 10 Drite a C program to Calculate Square noot of any 50 231(0)02 31(1){ antegot and float number. 32 (a) 01 12(b) ocesson Directous Ans. Ainclude (stolio. h) Variable Variable #inchall smath h int main () Galaxy Sprintf. ("Square noot of "/, d is: % of ", b, sqnt(b));

```
printf ( "o/, of is largest of all ", c);
 1+ ( a== b & & b== c K k a== c )
  printf ("All three integer are equal");
                         output
                         Enter - Iwas "integer - 2 3 6
 netwin 0:
                         B is largest of all.
86. # include. (stdio. h)
     int main ()
    int a, b, c;
     print ("Enter Horce integer:");
     scont ( " o/. d o/. d o/. d ", &a, &b, &c);
      :+ (a>6 && a>c)
      print ( " of d is largest ", a);
     14 (b) a 24 b) c)
     print ("of. d is largest", b);
   if (e) a kx c/b)
    printf (" of d is largest ", e);
```

306 ntroduction to pro - CSE11001, CA es of programme of Error ation Model e of E program HEON & Pointer / unton/structu -> 4×10 - no opi 10 for atenden = 10 {1 tos/mo of = 20 { (+0 1 ) 10(0) 0 0 377(3) pr 77(5) 8 (32 (a) 01-12(b) Cesson Directous (#) declaretton

```
netwin 0:
   814. Write a c program to find given two variables
         are equal, on not (user- defined).
    Ans. # Proclude (stolio. h)
         int main ()
         int a, b:
        printf ("Exter two variables:");
       scont ("o/od o/d > , &a, &b);
                                                             =0)
                                                                   troduction to
       if (a==b)
                                                                     CSE11001
                                      Owtout
                                      Enter two variables:
       print ("Both ove equal");
                                                                     of trogs
                                      5 5
                                                                   of Erron ation H
                                      Both ove equal.
                                                                   e of e prog
      else
                                                                   tion & Poin
     printf ("13oth are not equal");
                                                                    / unton/ st
                                                                     Queue
                                                                   -> 4×10 - 7
    netwin 0;
                                                                     10 10 toro
816. Write a C priogram to find the positive and negative
                                                                   5:10
                                                                   5=20 { 6+19
   number using it i'f else (user-defined).
                                                                   50 /71(0)0x71(F)
                                                                      12(0):02 12(4)
Ans. It.
                                                                   rocesson Directo
 # include (statio. h)
                                                                   Tion declaretten
  int main ()
  int n;
 print ("Enter ano:");
scanf (" 1/.d", kn);
 if (n>0)
```

9. Write a C. programme to calculate sin, cos, tan at any given Number. Ans. # mclade (stdio. h) # mclude. < math. bl int moin (). 306 int main A = 90; ntroduction floor b=sin(n); - CSE11001 float c = cos(a); es of trops float d = tan (a); of Error ations printf ("sm of the number = 0/6 + In ", b); ie of é pro printf (" cos of the number = o/of In", d); tion & Poi printf ("ton of the number = of f", d); / unton / st Queue retwin 0; 7 4×10 - 7 getch (); 10 to to 20 Output: - sin of the number = D. 893997 = 20 10+19 1 to: 20 /11(0)or 15(1) cos of the number = 0.448074 ton of the number =-1.995200 32 (a) 02 12 (D) ocesson Brech L You atte

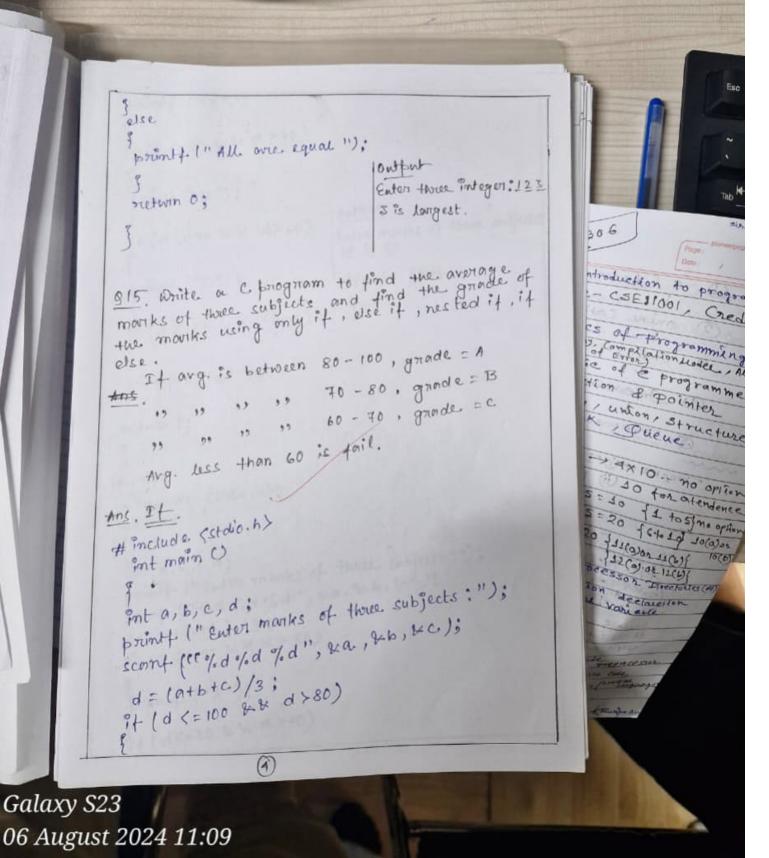
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29. WACP to print & characters. Ans. # mounde (chaio. h) Char ch= 'a', ch2 = 'b', ch3 = 'c', ch4 = 'd', ch5 = 'e') aco print [" foc of. c of. c of. c of. c ", ch, ch 2, ch3, ch4, netwin 0; 306 Output ntroduction to - CSE11001 abcade Q10. WACP to calculate, addition, substraction, multiplies of Program - contion and division of fowr float no. of Erron lation Mon ic of e progr this, # include ketdio. h) HEON & Point int main () / unton / stra K Gueue. scant ("% f. % f % f % t "/ t "ska, kb, kc, kd); float or, b, c, d; -> axio. no brint ("The sun is : of. fln ", a+b)c+d); TO tar ate = 10 11 tosj print (" the diff is: of fin", b-c); = 30 { 640 19 10 printf ("The productiis: 0/0+ In", a \*b\*c\*d); 0 177(DOS 77(D) brisht (" the Quotient is: of flor", a/d); 32 (a) 02 12(b) cessor Directorist declaretten retwin 0; Enter the no: 10.0 6.0 2.0 5.0 The sum is: 25,0 The diff is: 4.0 The product is: 600.0 06 August 2024 the Quotient is: 2.0

write a c programme to print Your University Name. Ans. #include (stdio.h) int main () printf ("ADAMAS UNIVERSITY"); 306 netwino; getch (); ntroduction - CSENIO output: ADAMAS UNIVERSITY write a C. programme to show any integar and float ic of ep Hion & Po number. / unton /. # Forclude (stdio. h) K Pueu Int main () -> 4×10. 10 to int a = 4; :10 float b= 2.46; 5=20 11 print ("integori number and float number is = % d and % f", a,b); 20 111(2)02.11 32 (a) 02 12 netwin 0; getch (); outfut ; integar number and float number is = 4 and 2-4600

Galaxy S23



```
write an a programme to find power of any number.
   Ans.
      # include (stdio. h)
     # include (math.h)
     int main ()
                                                        306
      int a = 20;
     int b= por (012);
                                                        ntroductio
     print (" power of a is = ofd", b);
                                                        - CSE
     netwin 0:
     getch();
   output: power of a is = 400
                                                          unton
8. Write or C. programme to calculate square noof of
   a number.
                                                          100
   Ans ! -
   # include (stdio.h)
   # include (math. h)
   int main ()
   int a= 625;
   print f ("square noot of a is = ofod", b);
   retwin 0:
   getch ();
  onton's square noot of a is= 25
```

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```
MODULE - 2
     OIL. Write a C program to find even and odd
     numbers only using if statement.
      Ans. #include (stdio. h)
           int main ()
            int m;
           printf ("Enter a no. to check odd on even");
           sconf (" %d", &n);
          if (n%2 ==0)
                                   Output: -
                                   Enter a no. to check odd on
          printf. ("Even");
                                   Even Addet.
        if (nº/.2!=0)
        printf ("Odd");
   812. Drite a C program to find over and odd num-
-but using if - ese statement.
   Ans, #im clude (stdio.h)
          mt main ()
         print ("Enter a no. to check odd on even:");
          scant ("% d", &n);
          94 (91 % 2 = = 0)
Galaxy S23
```

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- CSE11001

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· Sueue.

7 4×10 - 70

= 20

10 121000 TICES

32 (a) 02 12(b)

declarerio

10 for afe = 10 {1 tosy

1 C+0 1 \$ 10

```
num 1 = num 2 5
             num2 = temp ;
             printf ("After wapping variable L = % d, variable 2
                      = %d\n ", num 1, num 2);
             return 0;
                                                                  306
                   output 3 -
                                                                   ntroduction to
                   Enter value for voriable-1:2
                                                                   1- CSE11001
                    Enter valle for variable 2:3
                   After swapping variable 1=3, varia-
                                                                   es of troops
                                                                   of Error
                   -ble 2 = 82
                                                                   ic of e pro
        3. Write a C program to print average of five numbers.
                                                                   HEON & Poi
                                                                    / unton / st
                                                                    K Sueue
           (pre-defined).
                                                                    AXIO.
          Ans. # include (stdio. h)
                                                                     10 tore
                int main ()
                                                                     =10
                Pont a= 5, b= 10, c= 15, d= 20, e= 25, t;
                                                                    5=20
                                                                          11 to
                                                                    50 /71(0)0×11(0)
                                                                          16+019
                 f=(a+b+c+d+e)/5
           printf ("The avariage of 5 integor is % d", f);
                                                                      $ 12 (a) 02 12(1
                                                                    L Variable
               netwin 0;
                   The avortage of 5 integar is 15.
                  output; -
Galaxy S23
06 August 2024 11:09
```

printf ("(a12-b12) = 0/0 d", pow (a12)-pow (b,2)); printf ("In (a-b)"3 = 1/6d", pow ((a-b),3)); printf ("In (a+b) 1 2 = 7.d", pow ((a+b),2)); print (">m (m-b) 2 = 1/0 d", pow (a-b),2)); sutwino: 306 ontput ntroduction 10 20 - CSESTOOL (a12 -612)= -800 es of Prog (A-b) 13 = -1000 of Error alson (a-+b)12 =900 ic of e pro Hion & Poi 28. WACP to covalente left shift, right shift and con-(unton/st K Queue -ditional operator. Left swift-resort: 80 -> 4×10. Ans, # "molnde, (statio.h) Right shift result : 1 10 toro Pat main 1) 9 510 int a=10, b= 3. Maximum of 10 and 3 is: Port left shit nesult = a < < b; = 20 11 to: 1 c+0 1 d 0 /11(0)02 11(0) Port night swift = a>> b; 11 Right swift 32 (a) OF 17(A) print ("Left whift nesult : % d \n", left, ship nesult); declaretten bruntt ("Right shift result: % din", night shift result); brint (" Maximum of % d and % d is: % d in ", a.b. max); return 0; Galaxy \$23 06 August 2024 11:09

```
17) #molude (stdio. h>
          Bot main ()
          inta, bi
           a=10;
          printf (" The Addition of % d and % d without another
                                                                 306
                  voriable is ofd", atb);
                                                                 ntroduction
           netwin 0;
                                                                 - CSE1100
                                                                 es of thro
                                                                 of Error)
             Output : -
             The Addition of 10 and 20 without another
                                                                 ic of ep
                                                                 Hion & Po
             voriable is 30
                                                                  / unton,
                                                                 K Sueu
    2. Driter a C program to swap two numbers using and
                                                                  -> 4×10.
      without using third vorticable.
                                                                   10 40
      Ins. # include (stdio. h)
                                                                 5=20 10+
            int main ()
                                                                 50 $11(D)on1
            int nums, num 2, temp;
                                                                    12 (a) 01
                                                                  oresson Di
            for (int-i=0; 1(5; 1++)
                                                                  on declare
            print ("Enter Value for variable. 1:");
            scart (" o/od", & num 1);
            printf ("Enter Value for vortiable 2:");
Galaxy S23 sconf ("%d", x num2);
            -temp = num L;
```