# 0

#### INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous) Dundigal, Hyderabad – 500 043

#### LABORATORY WORK SHEET

	Date: 07.10612022
Roll No: 21951A6754	Name: P. JYOTHI PRASANNA
Exp No: 0.1	Experiment Name: OPERATORS . SEVALUATION OF EXPRESSIONS
DAVTO -	

#### DAY TO DAY EVALUATION:

9	Preparation	Algorithm  Performance in the Lab	Source Code Calculations and Graphs	Program Execution  Results and Error  Analysis	Viva	Total
Max. Marks	4	4	4	4	4	20
Obtained	4	4	4	4	2	19

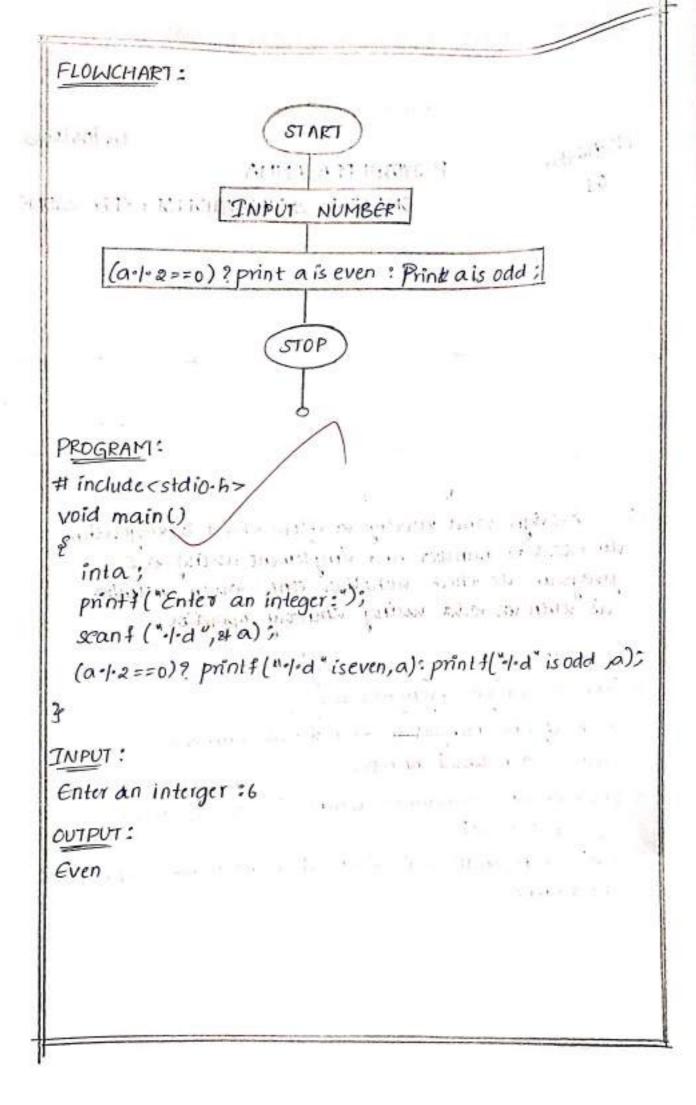
Signature of Lab I/C

#### START WRITING FROM HERE:

AIM: Design rand develop a flow chart of algorithm to vead a number and simplement using a c program to check whether the given number is even or odd using ternary operator.

## ALGORITHM:

- Dake a number from the user
- 2) Check if the number is a natural number.
- 3) If it is a natural number.
- 4) Check if the remainder when the no is divided by 2, is 0 or not.
- 5) If the remainder viso, then it is even no, relse odd number.

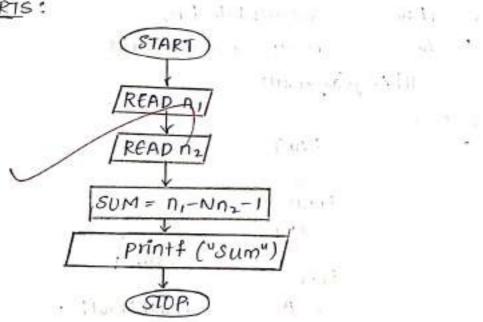


Design and elevelop a eflowchart & algorithm to read two integers and implement using a c program to perform the addition of two nots without using + operator.

## ALGORITHM:

- 1. Start
- 2. Read
- 3- Bum = n,-Nn,-1
- 4. Driplay n value
- 5. Gtop

## FLOWCHARTS:



## PROGRAMI:

# include <stdio+h>

int n, n, sum; scanf ("-1.d.1.d", &n, &n, ); sum=n,-Nn,-1;

printf ("oled", sum);

OUTPUT: Sum=9

INPUT: 1774 10,=5

16.43 Tel. (1)

3. Develop a c program to uvaluate the following arthemetic expressions by occading appropriate input from the standard input device. Orderstand the priority of operators while evaluating expression.

i) 6+2/(2+1+2/3+6)+8+(8/4)

1) 17 -8/442 +3- ++2

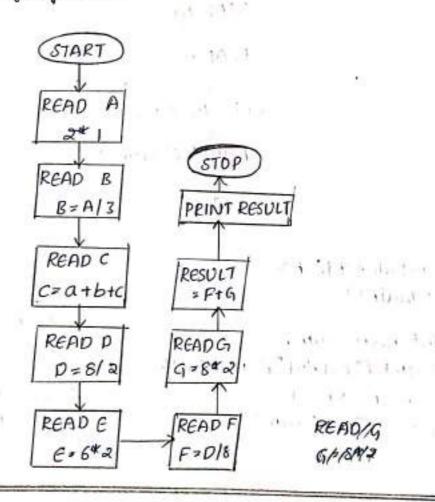
(iii) ! (2>10) 위위(Y==2)

## 的 ALGORITHM:

- 1) Estart
- 6) E=6+2
- a) A=2\*1
- 71 F = 12/8
- 3) B = A/3
- 8) G = 8\*2
- 4) C=2+B+6
- 9) Baleulate F+G
- 51 D=8/6
- 10) Oftere FIG in result.

11 Display result.

## FLOWCHART:





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	Y EVALUATI		8. II. S			
C 12/27=1141	Preparation	Algorithm	Source Code	Program Execution		1
		Performance in the Lab	Calculations and Graphs	Results and Error, Analysis	Viva	Total
Max. Marks	4	4	4	4	4	20
Obtained						15

Signature of Lab I/C

Date: .....

#### START WRITING FROM HERE:

```
PROGRAM:

## include < stddo.h>

int main()

int a,b,c,d,e,fig, result;

a = a*1;

b = a|3;

c = a+b+6;

d = 8|6;

c = 6*2;

f = 12|8;

g = 8*a;

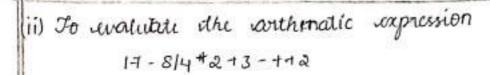
Result = f+g

prinff ("-1-d', result);

Actum 0;

3

OUTPUT: 17
```



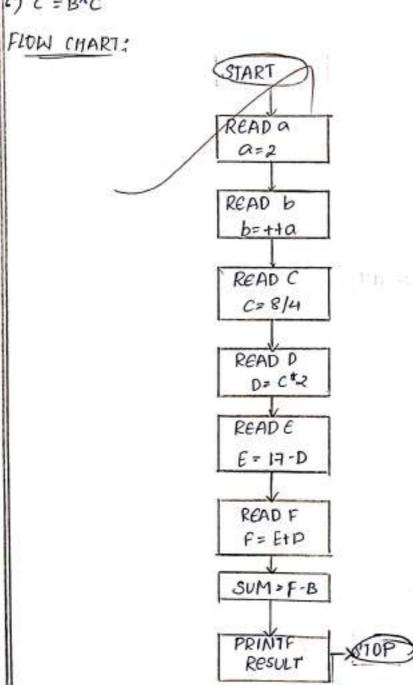
## ALGORITM:

- 1) Gart
- a) Initialize A=2
- 3) Initialize the sum 20
- 4) balculate X=++A
- 5) B = 8/4
- c) c = B\*C

- 7) D= H-C
- 8) E= D+C
  - 9) Calculate sum = E-x

That the state of the

- 10) Paint sum
- 11) \$top



```
PROGRAM:
# include <stdio.h>
                                to that there is
int main()
int a,b,c,d,e,f, result;
a=2;
b=++a;
C= 8/4;
d = C+2;
e= 17-d:
4 = end ;
result = f-b;
Print f ("Ind", result);
return o;
OUTPUT : 14
(ii) To revaluate the expressión: ! (x>10) $19 (4==2)
ALGORITHM:
1) Blart
2) Read number 2 by
3) a= 1 (a>10)
4) b= 7 == & 1 . At 1 . The special in heady by and depend
s) Porform agg b
6) Oftere value of a 2126 in vesult
7) Display result
es stop
PLOWCHART:
            > a=1(x>10) -> b=(y==2) -> print+(a&&b)
                                   Stop
```

```
PROGRAM:
  # include <studio+h>
                                         and the state of the state of
   main ()
   int any, a, b, easuitt;
   scanf ("-1-d -1-d", 9, 84);
   a=! (x>10);
   b= y==2;
   result = (a & 4b);
   print ("1.d", senut);
   INPUT:
   OUTPUT:
4) the Develop in a program to idisplay the isize of various
   built-in idata type in changuage.
   ALGORITHM:
   1. Ostart
  2. Display size of what rusing rize of (what)
  3- Display size of kint using size of (int)
  4. Display size of float using size of (float)
  5) Display vine of double using vize of (double)
  c. Klop
```



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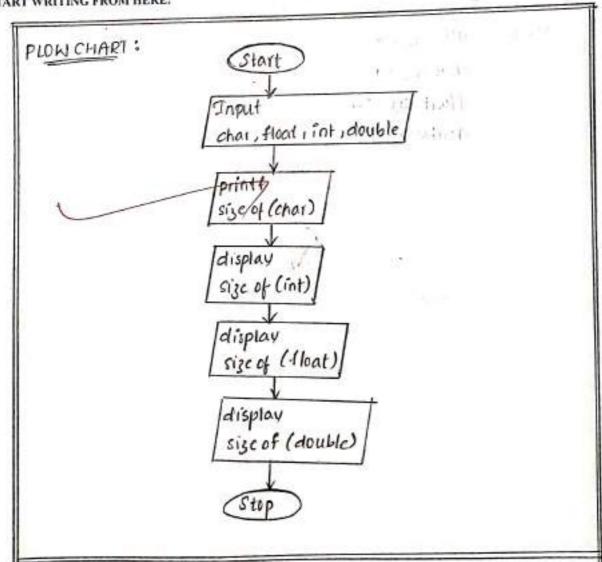
#### LABORATORY WORK SHEET

				Date:		
Roll No: ,,		.Name:	*******************			
	Y EVALUATI	Experiment Name:				amover.
	Preparation	Algorithm	Source Code	Program Execution	Viva	Total
		Performance in the Lab	Calculations and Graphs	Results and Error Analysis	710.2	1
Max. Marks	4	4	4	4	4	20
Obtained		14.71.4	P ON T M	3		

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#### START WRITING FROM HERE:

D.



```
PROGRAM :
# Include < stdio . h>
int main ()
int a;
charb;
float c;
doubled;
printf ("int size: -1-d In", size of (a));
printf ("charsize: . / d \n", size of (b));
prints ("float size: 1-d In; size of (c));
prints ("double size: 1-d In", size of(d));
retumo;
OUTPUT:
           intsize: 4
            char size : 1
            float size:4
            double size: 8
```