

(Autonomous) Dundigal, Hyderabad - 500 043

LABORATORY WORK SHEET

Roll No: 2!	151A6754	.Name:		NNA	* * * * * * * * * * * * * * * * * * * *	
		. Experiment Name:				
		Algorithm	Source Code	Program Execution		
	Preparation	Performance in the Lab	Calculations and	Results and Error Analysis	Viva	Total

20

Max. Marks

Obtained

```
START WRITING FROM HERE:
    AIM: Develop, implement and execute a c program to
         read a list of integers of valore it in a single
         dimensional array. Write a c program ito print the
         second largest integer in a list of untegers.
                            PROGRAM:
                                    TE TOUR OF YOUR PARTY PRINCE
    # Include < stdio.h>
                                       1 ( Par : 31-1 , a 13 au).
    main() $
    inta[10],i,j, max1, max2;
                                     i Chillia B. Maratin Barris
    printf ("Enter 10 no.15");
                                        F (PP) WATE THAN
    for (i=0; i< 10; i+1) {
    scanf ("-1-d", 4 a[1);
    max1 =a[0];
    max 2 = ali];
    for (i=0;i<10;i++) {
    if (a[i] > max 1)
    maxi =a[i];
```

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print = ("Largest element = 1.d", max1);
-Jor (i=0; i<10; i++) &
if (a[i] > max = 98 a[i] < max 1)
printf ("Second largest element = 1.d", max2);
INPUT: Enter 10 nos: 1250 12345678
DUTPUT: Second largest element = 12.
AIM: Develop, implement and rexecute a c program ito
   read a vist of integers of votore it in a single.
   dimencional vorray. Write la oprogram to icourt of
   display positive, negative, odd & even numbers in van
              · 大江江 · 王如· 新知·特别中部公司新原江 · 并打办。
PROGRAM:
# include < stdio.h> lang in the lange to the man
int a (10), i, p=0, n=0, 0=0, 0=0;
printf ("Enter 10 nos:");
for (i=0; [<10; i++) {
scanf (".1.a", gali]);
for (i=0; i<10; i++) &
if (a[i] · [·2 == 0) ?
C++;
else ?
0++;
if (a[i]>=0) &
 P++;
```

```
else &
n++;
print-1 (4 Even no.'s = 1-dm, e);
prints (" Odd no.'s =1-din, o);
print+ (" Positive nois = 1. din, p);
print+ ("Negative no.1s =-1-d", n);
INPUT: Enter 10 nos: 123 -1 -1 479 11 15
OUTPUT: Even no's =3
        Odd 10015 = 7
         Positive no.1s = 8
        Negative no.15 = 2
AIM: Develop simplement and rexecute a c program to
    read a dist of integers of estore alt in a single
    dimensional varray. Write va c program to find
    the frequency of ia particular number in valist
     of integors-
PROGRAM;
# include <57dio.h>
#define MAX100
int main() {
int arr [MAX], n,1;
int num, count;
printf ("Enter total number of elements;");
scant ("1.d", 9n);
printf ("Enter array elements:");
```

```
for (i=0; i<n; i++) {
   print f ("Enter element · 1 · d: ", i+1);
   scanf (".1.d", & arr [i]);
   print+ ("Enter number to find occurrence:");
  scanf ("1.d", ynum);
  count = 0;
  for (i=0; i<n; (++)&
  if (arr[i] == num)
   count ++;
   print+("Occurence of old is; al-d", num, count);
   return o;
  INPUT: Enter total number of elements:5
         Enter array elements;
                                      OUTPUT ;
         Enter element 1: 10
                                     Occurrence of 10 is:3
         Enter element 2:10
         Enter element 3: 20
         Enter element 4:30
         Enter element 5:10
         Enter number to find occurrence; 10
d) AIM: Develop implement of execute a cprogram that
     reads two matrices A(mxn) & B(pxq) & compute the
      product A & B. Read matrix A of matrix B in now
      major order respectively. Print both the input of
```

resultant matrices with suitable headings of output.

should be in matrix format only.

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PROGRAM:
# include (stdio.h>
                              The second state of the second state of
void main () f
 int atio] [10], b[10][10], c[10][10], i,j, k,m,n,p,9;
printf ("Enter row of colm of mat 1");
scanf ("1.d.1.d", &m,&m);
prints ("Enter rows colm of mata");
scanf ( " 10d 1 ) 4 1 1 19);
if (n == p) &
printf (YEnter matin);
for (i=0; i<m; i+1) {
for (j=0 ; j<n ; j++) £
scanf ("led", sali][j]); it is a letter and it
printf ("Enter mate");
                                         INPUT:
for (i=0; i<p; i++) ?
                                     Enter row & colm of mat 1
for(j=0;j<q;j++){
                                     La margine who
scanf ("1-d", & b[i][i]);
                                     Enter rowelcom of mat 2
                                     distribution of the second
printf ("multiplied mat");
                                     Enter mat 1
for (izo; icm; ita) {
                                     for (1=0; j<q; j++) &
c[?][i] 20;
                                    Enter mate
for (k=0; kcn; k++) {
CEIJCJ = C[IJCj] +a[i][K] + b[kJ[j] ; 2
printf (". 1.d", e[f][j]);
                                    OUTPUL:
                                    Multiplied matrix:
printf (" ");
else printf ("multip is not possible");
```