

# **EXPERIMENT NUMBER – Practical 2.1**

# NAME – RAJDEEP JAISWAL. UID-20BCS2761 BRANCH – B.TECH(CSE).

 $\begin{array}{l} SEMESTER-2^{ND}\\ DOF-1\ MARCH\ 2021\\ SEC-26\ (B) \end{array}$ 

TOPIC OF EXPERIMENT - A program to input a matrix of dimension 10\*20 with base

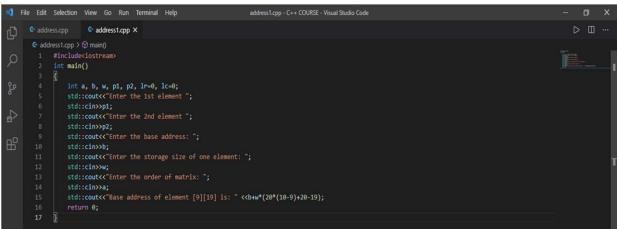
address is 1100. Find the address of (9, 19) element of the matrix.

AIM OF THE EXPERIMENT- Finding the address of the elements.

#### FLOWCHART/ ALGORITHM

- Start
- Enter the 1<sup>st</sup> and 2<sup>nd</sup> element
- Enter Base address
- Enter Storage size of element
- Enter the order of matrix
- Using the formula <<b+w\*(20\*(10-9)+(20-19))
- End

#### PROGRAM CODE





## ERRORS ENCOUNTERED DURING PROGRAM'S EXECUTION

#### (Kindly jot down the compile time errors encountered)



## **PROGRAMS' EXPLANATION (in brief)**

The above program is used to find the address of element [9][19] the matrix of order 10\*20, with base of 1100, and the size of the element is user defined.

## OUTPUT





## **EXPERIMENT NUMBER – Practical 2.2**

NAME – RAJDEEP JAISWAL. UID-20BCS2761 BRANCH – B.TECH(CSE). SEMESTER – 2<sup>ND</sup> DOF- 1 MARCH 2021 SEC – 26 (B)

TOPIC OF EXPERIMENT - A program to input a matrix of dimension m\*n with base

address. Find the w (width) of each cell after applying Row major and print on the screen.

AIM OF THE EXPERIMENT- . Finding the w (width) of each cell after applying Row major

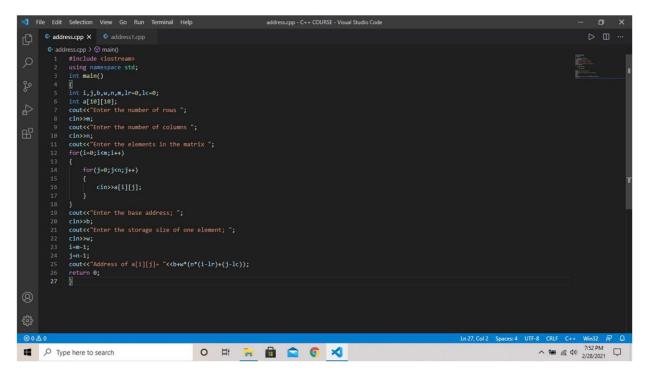
and print on the screen.

#### FLOWCHART/ ALGORITHM

- Start
- Enter the number of rows and column
- Enter the elements of the matrix
- Now we will run a loop to enter the rows and columns of the matrix
- Enter the base address
- Enter the storage size of the element
- Using the formula to calculate the address of the element <<b+w\*(n\*(i-Lr)+(j-Lc))
- End



## PROGRAM CODE



## ERRORS ENCOUNTERED DURING PROGRAM'S EXECUTION

(Kindly jot down the compile time errors encountered)



## **PROGRAMS' EXPLANATION (in brief)**

The above program is a user based program which takes input of number of rows and column, order and the element of matrix, base and size of element from the user and calculate the address of the element using Row major method.



#### **OUTPUT**



#### **LEARNING OUTCOMES**

- Identify situations where computational methods would be useful.
- Approach the programming tasks using techniques learnt and write pseudo-code.
- Choose the right data representation formats based on the requirements of the problem.
- Use the comparisons and limitations of the various programming constructs and choose the right one for the task.

Sr. No.	Parameters	Maximum Marks	Marks Obtained
1.	Worksheet Completion including writing learning objective/ Outcome	10	
2.	Post Lab Quiz Result	5	
3.	Student engagement in Simulation/ Performance/ Pre Lab Questions	5	
4.	Total Marks	20	

#### **EVALUATION COLUMN (To be filled by concerned faculty only)**