NAME – RAJDEEP JAISWAL DATE -

BRANCH – BTECH CSE SEC = 13 A

UID -20BCS2761

SUB-DATA STRUCTURE ASSIGNMENT

Consider a two-dimensional array arr[10][10] which has base address = 1000 and the number of bytes per element of the array = 2. Now, compute the address of the element arr[8][5] assuming that the elements are stored in column-major order.

CODE IN COMPILER

CODE IN TEXT FORM -

```
#include <iostream>
using namespace std;

int main()
{
    // B is base address
    // W is size of element
    // M is number of rows and N is number of columns
    int arr[10][10], B= 1000, W = 2, lc = 0, lr = 0;
    int i = 8, j = 5, M = 10, N = 10; // given in question

    cout<<"Address of arr[9][6] : "<<B + W * ((j - lc) * M + (i - lr));

    return 0;
}</pre>
```

OUTPUT

