**01 Fundamentals EXAM**

Write C++ code for solving the tasks on the following pages.

Code should compile under the C++03 or the C++11 standard.

Please follow the exact instructions on uploading the solutions for each task.

**Task 3 – SumOfMatrix**

Write a program, use vector( Matrix ) that finds the sum of numbers ABOVE the diagonal.

**Example 1**

**Enter size of matrix:** 2

**Enter matrix[0][0]=** 1

**Enter matrix[0][1]=** 1

**Enter matrix[1][0]=** 1

**Enter matrix[1][1]=** 1

**The MATRIX is :**

**1 1**

**1 1**

**Sum of numbers Above diagonal is: = 1**

**Program ended with exit code: 0**

**Example 2**

**Enter size of matrix:** 3

**Enter matrix[0][0]=** 3

**Enter matrix[0][1]=** 3

**Enter matrix[0][2]=** 3

**Enter matrix[1][0]=** 3

**Enter matrix[1][1]=** 3

**Enter matrix[1][2]=** 3

**Enter matrix[2][0]=** 3

**Enter matrix[2][1]=** 3

**Enter matrix[2][2]=** 3

**The MATRIX is :**

**3 3 3**

**3 3 3**

**3 3 3**

**Sum of numbers Above diagonal is: = 9**

**Program ended with exit code: 0**

**Example 3**

**Enter size of matrix:** 4

**Enter matrix[0][0]=** 1

**Enter matrix[0][1]=** 2

**Enter matrix[0][2]=** 3

**Enter matrix[0][3]=** 4

**Enter matrix[1][0]=** 1

**Enter matrix[1][1]=** 2

**Enter matrix[1][2]=** 3

**Enter matrix[1][3]=** 4

**Enter matrix[2][0]=** 1

**Enter matrix[2][1]=** 2

**Enter matrix[2][2]=** 3

**Enter matrix[2][3]=** 4

**Enter matrix[3][0]=** 1

**Enter matrix[3][1]=** 2

**Enter matrix[3][2]=** 3

**Enter matrix[3][3]=** 4

**The MATRIX is :**

**1 2 3 4**

**1 2 3 4**

**1 2 3 4**

**1 2 3 4**

**Sum of numbers Above diagonal is: = 20**

**Program ended with exit code: 0**