## **EXPERIMENT NO:4**

## CUDA PROGRAM FOR ADDITION OF TWO LARGE VECTORS

```
#include <bits/stdc++.h>
#define N 10
void add ( int *a, int *b, int *c )
{
         int tid = 0; // this is CPU zero, so we start at zero
         while (tid < N)
         {
              c[tid] = a[tid] + b[tid];
              tid += 1; // we have one CPU, so we increment by one
          }
}
int main( void )
{
        int a[N], b[N], c[N];
       // fill the arrays 'a' and 'b' on the CPU
       for (int i=0; i<N; i++)
       {
              a[i] = -i;
              b[i] = i * i;
        }
     add( a, b, c );
```

## **OUTPUT:**

```
input

-7 + 49 = 42

-8 + 64 = 56

-9 + 81 = 72

Activate Windows

...Program finished with exit code 0

Press ENTER to exit console.
```