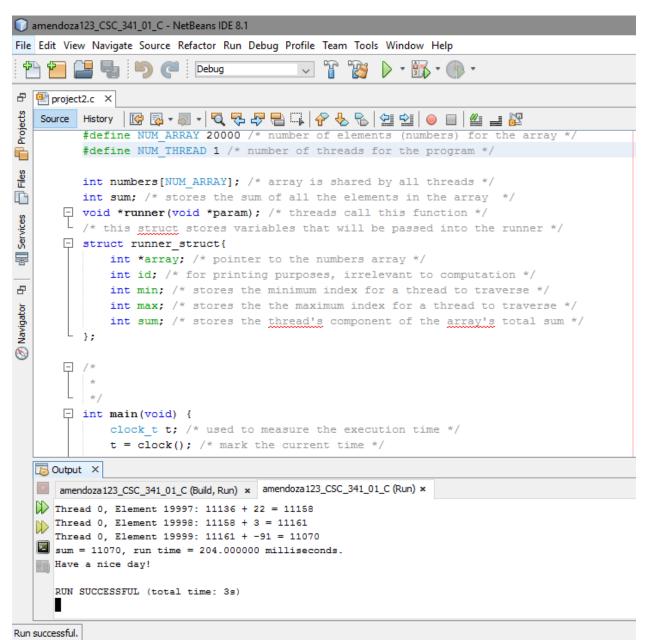
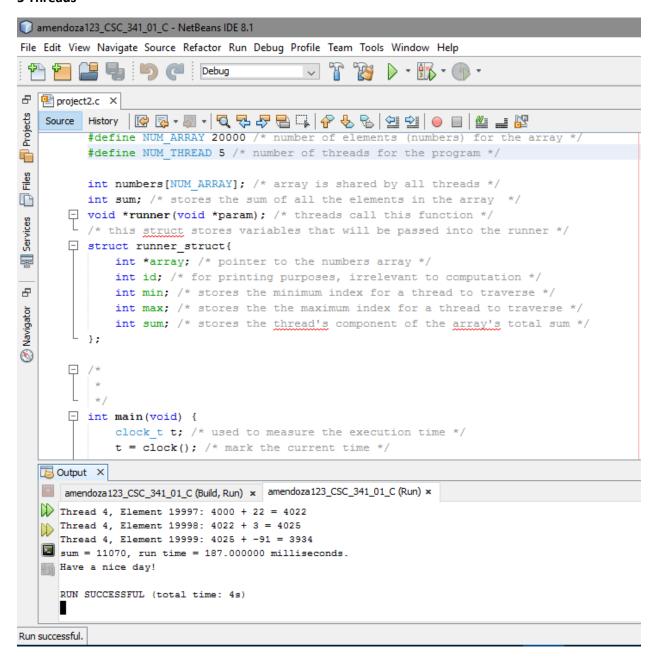
Project 2

1 Thread



5 Threads



10 Threads

```
amendoza123_CSC_341_01_C - NetBeans IDE 8.1
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
        Debug
  project2.c ×
    Source History 🕼 😼 - 🐷 - 🔍 🔁 🖓 🖶 🖫 🔐 😓 🕾 🖭 🗐 🔘 🔛 🎥 🚅 🚱
          #define NUM_ARRAY 20000 /* number of elements (numbers) for the array */
          #define NUM THREAD 10 /* number of threads for the program */
4
Files
          int numbers[NUM ARRAY]; /* array is shared by all threads */
int sum; /* stores the sum of all the elements in the array */
       void *runner(void *param); /* threads call this function */
Services
        ^{f L} /* this <u>struct</u> stores variables that will be passed into the runner */

    struct runner struct{
              int *array; /* pointer to the numbers array */
              int id; /* for printing purposes, irrelevant to computation */
8
              int min; /* stores the minimum index for a thread to traverse */
              int max; /* stores the the maximum index for a thread to traverse */
              int sum; /* stores the thread's component of the array's total sum */
       □ /*
       int main(void) {
              clock t t; /* used to measure the execution time */
              t = clock(); /* mark the current time */

○Output ×

   amendoza123_CSC_341_01_C (Build, Run) x amendoza123_CSC_341_01_C (Run) x
   Thread 9, Element 19997: 1259 + 22 = 1281
   Thread 9, Element 19998: 1281 + 3 = 1284
      Thread 9, Element 19999: 1284 + -91 = 1193
   sum = 11070, run time = 186.000000 milliseconds.
   Have a nice day!
      RUN SUCCESSFUL (total time: 5s)
Run successful.
```