Operating System Lab CPE 435

Lab4 – IPC using Shared memory

Write the code for two distinct C/C++ processes that are not part of a parent-child relation. They both attach shared memory area containing a new type structure with four integers (first-number, second-number, Sum and Flag).The first process must set the values for first and second numbers, then it update the value of flag to 1(which means there is a new data).the second process is find the sum of these two numbers and display the sum of the two values and changes the flag to zero. Two processes continue running until the first process sets the value of flag to -1.

**Hint:**

Define the shared structure like:

*struct info {*

*float value1, value2;*

*float sum;*

*int flag;*

*};*

*# define KEY ((key\_t)(1234))*

*# define SEGSIZE sizeof (struct info)*