POSIX Support - pthreads library - Mulithreading

```
#include <pthread.h>
 #include <stdio.h>
int sum; /* this data is shared by the thread(s) */
 void *runner(void *param); /* the thread */
 int main(int argc, char *argv[])
   pthread_t tid; /* the thread identifier */
   pthread_attr_t attr; /* set of thread attributes */
   if (argc != 2) {
     fprintf(stderr, "usage: a.out <integer value>\n");
     return -1;
   if (atoi(argv[1]) < 0) {
   fprintf(stderr, "%d must be >= 0\n", atoi(argv[1]));
     return -1;
/* get the default attributes */
  pthread_attr_init(&attr);
   /* create the thread */
 pthread_create(&tid,&attr,runner,argv[1]);
  /* wait for the thread to exit */
pthread_join(tid,NULL);
   printf("sum = %d\n",sum);
 /* The thread will begin control in this function */
 void *runner(void *param)
   int i, upper = atoi(param);
 sum = 0;
  for (i = 1; i <= upper; i++)
 sum += i;
  pthread_exit(0);
```