SWE-204 OPERATING SYSTEMS SSUET/QR/113

**LAB #6**

**PTHREADS**

**EXAMPLES**

**Program 1**

#include<stdio.h>

#include<pthread.h>

#include<stdlib.h>

int sum;

void \*runner(void \*param);

main(int argc , char \*argv[])

{

pthread\_t tid;

pthread\_attr\_t attr;

if(argc !=2)

{

printf(“usage :a.out <integer value> \n”);

exit(0);

}

if(atoi (argv[1])<0)

{

printf(“%d must be >=0\n” , atoi(argv[1]));

exit(0);

}

pthread\_attr\_init(&attr);

pthread\_create(&tid,&attr,runner,argv[1]);

pthread\_join(tid,NULL);

printf(“sum=%d\n},sum);

}

void \*runner(void \*param)

{

int upper=atoi(param);

int i;

sum = 0;

if(upper>0)

{

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for(i=1;i<upper;i++)

{

Sum+=I;}

pthread\_exit(0);}}

**COMPILE AND RUN**

gcc -pthread -o a1 thread.c

./a1

**Exercise**

1. Write few lines about, what did you learn after running the above Program 1.

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