Write program to calculate sum of n numbers using thread library.

## CODE

```
#include<pthread.h>
#include<stdio.h>
#include<stdlib.h>
int sum;
int main(int argc , char *argv[])
    pthread_t tid;
    pthread_attr_t attr;
    if(argc!=2)
        fprintf(stderr, "Usage : a.out<integer value>\n");
    if(atoi(argv[1])<0)</pre>
        fprintf(stderr, "%d must be >=0\n", atoi(argv[1]));
    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 i , upper=atoi(param);
    sum=0;
    for(i=1 ;i<=upper ;i++)</pre>
        sum += i;
```

```
}
pthread_exit(0);
}
```

## **OUTPUT**

```
→ OSPracticals gcc Practical12.c -o Practical12 -lpthread
→ OSPracticals ./Practical12 5
Sum = 15
→ OSPracticals ./Practical12 7
Sum = 28
→ OSPracticals □
```