

Script started on 2019-03-10 17:23:36+0530

```
praveen@praveen$cat Samle.c##[K##[K##[K##[Kple.c
#include<pthread.h>
#include<stdio.h>
#include<string.h>
#include<stdlib.h>
int sum;
void *runner(void *param);
int main(int argc, char *argv[])
{
    pthread_t tid;
    pthread_attr_t attr;
    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;
    }
    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++)
        sum += i;
    pthread_exit(0);
}
```

praveen@praveen\$gcc Sample.c -lpthread

praveen@praveen\$./a.out 10

sum = 55

praveen@praveen\$cat MinMaxAvg.c

```
#include<pthread.h>
#include<stdio.h>
#include<string.h>
#include<stdlib.h>
int max, min, l;
float avg;
int list[10];
void *Max(void *param);
void *Min(void *param);
void *Avg(void *param);
int main(int argc, char *argv[])
{
    pthread_t tid1, tid2, tid3;
    pthread_attr_t attr1, attr2, attr3;
    if (argc < 2)
    {
        fprintf(stderr,"Usage: Enter list of integer values\n");
        return -1;
    }
    for(int i = 1; i < argc; i++) list[i-1] = atoi(argv[i]);
    l = argc - 1;
```

```

        pthread_attr_init(&attr1);
        pthread_attr_init(&attr2);
        pthread_attr_init(&attr3);
        pthread_create(&tid1,&attr1,Max, list);
        pthread_create(&tid2,&attr2,Min, list);
        pthread_create(&tid3,&attr3,Avg, list);
        pthread_join(tid1,NULL);
        pthread_join(tid2,NULL);
        pthread_join(tid3,NULL);
        printf("Max, Min, Avg: %d, %d, %f\n",max,min,avg);
    }
    void *Max(void *param)
    {
        max = list[0];
        for(int i = 1; i < l; i++)
        {
            if(max < list[i]) max = list[i];
        }
        pthread_exit(0);
    }
    void *Min(void *param)
    {
        min = list[0];
        for(int i = 1; i < l; i++)
        {
            if(min > list[i]) min = list[i];
        }
        pthread_exit(0);
    }
    void *Avg(void *param)
    {
        avg = 0;
        for(int i = 0; i < l; i++)
        {
            avg += list[i];
        }
        avg /= l;
        pthread_exit(0);
    }
}

```

```

praveen@praveen$gcc MinMaxAvg.c -lpthread
praveen@praveen$./a.out 23 45 11 234 111
Max, Min, Avg: 234, 11, 84.800003
praveen@praveen$exit
exit

```

Script done on 2019-03-10 17:26:23+0530