```
from google.colab import files
uploaded = files.upload()
                                  Choose Files acf_gpu.cu

    acf_gpu.cu(n/a) - 4157 bytes, last modified: 6/10/2025 - 100% done

 !nvcc --std=c++11 acf_gpu.cu -o acf_gpu -arch=sm_75
 !./acf_gpu small_data.txt
    Transfer of the control of the contr
                                  Angular Correlation Function Histogram:
                                  0-1 deg: 0
                                  1-2 deg: 0
                                  2-3 deg: 0
                                  3-4 deg: 0
                                 4-5 deg: 0
                                  5-6 deg: 0
                                  6-7 deg: 4
                                 7-8 deg: 0
                                 8-9 deg: 0
                                  9-10 deg: 0
                                 Time taken (GPU): 0.00026811 seconds
 !./acf_gpu data_100k_degrees.txt
    Transfer of the control of the contr
                                  Angular Correlation Function Histogram:
                                  0-1 deg: 9339213
                                  1-2 deg: 17136521
                                  2-3 deg: 23483661
                                  3-4 deg: 28998387
                                 4-5 deg: 34312638
                                  5-6 deg: 39522646
                                  6-7 deg: 44685139
                                  7-8 deg: 49100130
                                 8-9 deg: 52778750
                                  9-10 deg: 58052876
```

Time taken (GPU): 6.89996 seconds