**Parallel Histogram Equalization of Gray Scale Images**

**Department: IS**

**Team: 81**

|  |  |  |
| --- | --- | --- |
| Name | ID | Section |
| عبدالرحمن رافت احمد | 20191700361 | 3 |
| سمعان كمال بطرس خلة | 20191700297 | 3 |
| ايمان رجب همام جاد | 20191700154 | 2 |
| ايه محمد عبدالعزيز ابراهيم | 20191700165 | 2 |

* Test code with these different conditions:

1. different image sizes (e.g if the image size is N \* N, so test your code if the image size is 5N \* 5N and 10N \* 10N) .
2. different image size with multiple images (e.g 10 images of size 5N \* 5N) .

* The output Results

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 1 pic N\* N | 1 pic 5N\* 5N | 1 pic 10N\* 10N | 10 pics 5N\* 5N |
| sequential code | 160 ms | 3701ms | 15068ms | 3675ms |
| MPI Sol1 | 178 ms | 3840ms | 16239ms | 7322ms |
| MPI Sol (bonus) |  |  |  |  |