

Speed rate analysis:

File 1 : Size 1000 students

```
Time taken to read file :  
37 ms  
Time taken to sort file :  
0 ms  
Time taken to split file :  
1 ms
```

```
Time taken to output two new files :  
717 ms
```

File 2 : Size 10000 students

```
Time taken to output two new files :  
6187 ms
```

File 3 : Size 100000 students

```
Time taken to output two new files :  
65923 ms
```

File 4 : Size 1000000 students

```
Time taken to output two new files :  
552290 ms
```

File 5 : Size 10000000 students

```
Time taken to read file :  
8 ms
```

```
Time taken to output two new files :  
5153026 ms
```