Speed rate analysis:

File 1 : Size 1000 students

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

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

File 2 : Size 10000 students

```
Time taken to output two new files :
6162  ms
```

File 3 : Size 100000 students

```
Time taken to output two new files :
59136  ms
```

File 4 : Size 1000000 students

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

```
Time taken to output two new files :
565020  ms
```

File 5 : Size 10000000 students

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

```
Time taken to output two new files :
7458000  ms
```