Speed rate analysis:

File 1 : Size 1000 students

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

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

File 2 : Size 10000 students

```
Time taken to output two new files :
7200  ms
```

File 3 : Size 10000 students

```
Time taken to output two new files :
59703  ms
```

File 4 : Size 100000 students

```
Time taken to output two new files :
58478  ms
```

File 5 : Size 1000000 students

```
Time taken to output two new files :
554934  ms
```