**Check the normality of error term**

Simple data on pendulum length and period of the pendulum is given below.

|  |  |
| --- | --- |
| Length | Time |
| 1 | 10.2 |
| 2 | 14.2 |
| 3 | 16.4 |
| 4 | 19.2 |
| 5 | 21.5 |
| 6 | 23.3 |
| 7 | 25.2 |
| 8 | 27 |
| 9 | 29 |
| 10 | 30.5 |
| 11 | 31.9 |
| 12 | 33.6 |
| 13 | 34.7 |
| 14 | 35.9 |
| 15 | 37.4 |
| 16 | 38.5 |
| 17 | 39.2 |
| 18 | 40.4 |
| 19 | 41.9 |
| 20 | 43 |

Check whether the error time follows normal distribution with same variance.

The evaluation pattern is as follows:

|  |  |  |
| --- | --- | --- |
| Section | Parameters | Marks |
| A | Objective/Aim | 4 |
| B | Analysis | 6 |
| C | Interpretation | 6 |
| D | Timely submission | 4 |
| Total |  | 20 |