Python Programming Lab

MSc SS 4th sem

1. The length of bus routes for any particular transit system will typically vary from one route to another. The table below gives the above information on lengths (km) for one particular system. Use appropriate data structures. Write a Python program with appropriate input format of your choice and display the following output:
2. Write Python code to calculate what proportion of these route lengths are less than 20.
3. Write Python code to calculate what proportion of these routes have lengths of at least 30.
4. Also calculate programmatically the mean and median route length.

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| **Length** | **Frequency** |
| 6-<8 | 6 |
| 8-<10 | 23 |
| 10-<12 | 30 |
| 12-<14 | 35 |
| 14-<16 | 32 |
| 16-<18 | 48 |
| 18-<20 | 42 |
| 20-<22 | 40 |
| 22-<24 | 28 |
| 24-<26 | 27 |
| 26-<28 | 26 |
| 28-<30 | 14 |
| 30-<35 | 27 |
| 35-<40 | 11 |
| 40-<45 | 2 |