

```
1 % NAME: ADITYA BARMAN
2 % ROLL: 002320601024
3 % PROBLEM 2. Mean with Frequency
4
5
6 clc, clearvars, close all
7
8 f = [15, 20, 30, 18, 12, 5];
9 f_total = 0;
10 f_m_total = 0;
11
12 up_bd = [23, 28, 33, 38, 43, 48];
13 lw_bd = [19, 24, 29, 34, 39, 44];
14 midpts = ((up_bd + lw_bd)/2);
15 f_m = f .* midpts;
16
17 for i = 1:length(f)
18     f_total = f_total + f(i);
19     f_m_total = f_m_total + f_m(i);
20 end
21
22 mean_value = (f_m_total/f_total);
23
24 fprintf('The age of persons and number of persons is given below\n\n');
25 % Print the table headers
26 fprintf('%-10s %-20s\n', 'Age of Persons', 'Number of Persons');
27
28 % Print the table values
29 for i = 1:length(lw_bd)
30     fprintf('%-2d - %-2d\t\t\t%-10d\n', lw_bd(i), up_bd(i), f(i));
31 end
32
33 fprintf('\nMean of the data is: %.4f\n', mean_value);
34
35
36 % ===== OUTPUT =====
37
38 % The age of persons and number of persons is given below
39 %
40 % Age of Persons Number of Persons
41 % 19 - 23          15
42 % 24 - 28          20
43 % 29 - 33          30
44 % 34 - 38          18
45 % 39 - 43          12
46 % 44 - 48           5
47 %
```

48 % *Mean of the data is: 31.3500*

49

50 % =====