| Dale: SEPT 24, 2023 | Assignment | # 01 |
|---------------------|------------|------|
|                     |            |      |

| -       | 11331GMMENT #F OT  | 4   |
|---------|--|---|
|         | NAME: ISHA MALÎK   |   |
|         | CLASS: BSE-7A  |   |
|         | REG NO: FA20-BSE-013   |   |
|         | COURSE: INTRODUCTION TO DATA SCIENCE   |   |
|         | SUBMITTED TO: MAYAM MAHA RASHEED   |   |
| in'     | V. VIII. WISHIELD  |   |
| Q1:     | You are tasked with frequency of 10 as   |   |
|         | necessary.   |   |
|         |  | ,   |
|         | DATASET: AGES OF INDIVIDUALS   |   |
|         | The second of th | i de la companya de |
|         | 40, 23, 31, 27, 19, 45, 36, 20, 29, 22, 43, 38,  |   |
|         | 25, 18, 47, 27, 35, 30, 42, 33, 26, 21, 43, 28,  |   |
|         | 32, 44, 19, 41, 37, 18, 49, 34, 23, 22, 46, 18,  |   |
|         | 20, 50, 39, 27, 19, 31, 27, 22, 45, 38, 23, 18,  | 1   |
|         | 47,36.   |   |
|         |  |   |
|         |  |   |
| *       | PREPROCESSING.   |   |
|         | First of all, we will preprocess this data   |   |
|         | set by sorting this data into ascending  |   |
|         | order and then dividing into equal depth   |   |
|         | bins, e, frequency 10.   | J. Burne  |
|         |  | No.   |
|         | SORTED DATA:   | 1   |
|         | 18, 18, 18, 18, 19, 19, 19, 20, 20, 21, 22, 22,  | and when the  |
|         | 22, 23, 23, 23, 23, 25, 26, 27, 27, 27, 28, 29,  |   |
|         | 30, 31, 31, 32, 33, 34, 35, 36, 36, 37, 38,  |   |
| Marie 1 | 38, 39, 40, 41, 42, 43, 44, 45, 45, 46, 47,  | and annual and  |
|         | 47, 49,50  |   |
|         | TI CONTRACTOR OF THE CONTRACTO |   |
|         | in the second se | Les para  |
|         | Now, we will apply bin smoothing   |   |
|         | Now, we will apply bin smoothing<br>techniques on this sorted dataset.  Rashid Paper Products Wah Cantt:   |   |

Dale:

| Q  | Dalo:   |             |
|--|---|-------------|
| 100  | Bin 5:  |             |
| $\rightarrow$  |   |             |
|  | 46, 46, 46, 46, 46, 46, 46, 46, 46                                      |             |
| The second   | C   |             |
| *  | SMOOTHING BY BOUNDARY.  |             |
| 24-  | MING OT SOUNDARY,   | <del></del> |
| Ť  | BOUNDARIES:   |             |
| The state of the s |   |             |
| -  | Bin 1: 18-21  |             |
| No.  | Bin 2: 22-27 Bin 3: 27 71   |             |
|  | Bin 4: 35-42  | 4,          |
|  | Bin 5: 43-50  | 1           |
|  | 01N 3: 43-50  |             |
|  | Bin 1:  |             |
|  | 18, 18, 18, 18, 18, 18, 21, 21, 21                                      |             |
|  | 20, 10, 10, 10, 10, 10, 21, 21, 21                                      |             |
|  | Bin 2:  |             |
|  | 22, 22, 22, 22, 22, 22, 27, 27, 27                                      |             |
|  |   |             |
|  | Bin 3:  |             |
|  | 27, 27, 27, 27, 27, 34, 34, 34, 34, 34                                  |             |
|  |   |             |
|  | Bin 4:  |             |
| 1000   | 35, 35, 35, 35, 35, 35, 42, 42, 42, 42                                  |             |
|  |   |             |
|  | Bin 5:  |             |
| 2017   | 43, 43, 43, 43, 43, 50, 50, 50, 50                                      |             |
|  |   | 4           |
|  | · This is the representation of data after                              | , 4)        |
| 14   | This is the supresentation of data after applying smoothing techniques. |             |
|  |   |             |
| All the same   |   |             |
| 1000   |   |             |
|  | Rashid Paper Products Wah Cantt:  |             |
|  | II II   | •           |