

```

1   2   3   4   5   6   7   8   9   10  11  12  13  14
15  16  17  1  2  3
Before cleaning total numbers: 20
Duplicate numbers:             03
After cleaning total numbers:  17

```

It shows that the algorithm works good with numerical data also.

### 5.3 Text and Numeric Data

For testing the algorithm with text and numeric values, a file containing 55 total numbers of text words and the numerical values was tested.

```

Ram    Sumit  Ram   5    16  Shyam  Dheeraj  Amit   6      17
Sita   Sanjay  Alap  7   18  Gita   Garima  Sumit  8     19  Manoj
Raj    Dheeraj  9   20  Ravi   Rajnish  Garima 10    21  Amit   Surendra
Manoj  11  22  Alap  Shusil  1   12  23  Amit   Shashi  2   13  24  Amit
Shyam  3   14  25  Amit  Sita  4   15  26

```

In Fig. 4, results show that all the duplicates are removed and the system is performing well in this case.

```

Number of words and number before cleaning: 55
Numbers of duplicate word and number: 12
Number of words and number after cleaning: 43.

```

### 5.4 Text, Numeric, and Special Character Data

A file containing total 18 characters including text, numeric values, and special symbols was fed to the algorithm, and the test results show that five duplicates were removed which is shown in Fig. 5.

```

@   @   1  #   & 2  *  sumit 3  $  raj4  %  Amit 1  &  raj2
Number of words, Number and Symbols before cleaning: 18
Numbers of duplicate:                               05
Number of Data after cleaning:                       13

```