The program can be executed by following the five steps given below:

Part(i)

```
hadoop jar Hw1.1 Top10CountVisitor <input_path> <temp_path>
<output_path>
```

```
hadoop jar Hw1.1 Top10CountVisitor /home/rxs115330/input
/home/rxs115330/temp1 /home/rxs115330/output1
```

Sample output:

```
249     LAMBREW-JEANNE
256     Livingston-Catherine
268     Morrison-Helen
272     Larsen-Steven
279     Levitis-Jason
299     Fontenot-Yvette
307     BrooksLaSure-Chiquita
325     Hoff-James
335     Tavenner-Marilyn
466     Hash-Michael
```

Part(ii)

```
hadoop jar Hw1.2 Top10CountVisitee <input_path> <temp_path>
<output_path>
```

```
hadoop jar Hw1.2 Top10CountVisitee /home/rxs115330/input
/home/rxs115330/temp2 /home/rxs115330/output2
```

Sample output:

```
6965    NELSON GREG
6986    MONTEIRO PAUL
8154    DOEBLER MAX
9788    LAMBREW JEANNE
9962    / POTUS
10688   HETZEL OFFICE
10709   FLOTUS
11694   LIERMAN KYLE
124027  POTUS
1933263 OFFICE VISITORS
```

Part(iii)

```
hadoop jar Hw1.3 Top10CountVisitor <input_path> <temp_path>
<output_path>
```

```
hadoop jar Hw1.3 Top10CountVisitorVisitee /home/rxs115330/input
/home/rxs115330/temp3 /home/rxs115330/output3
```

Sample output:

```
197     MANN CYNTHIA    LAMBREW JEANNE
203     KRONICK RICHARD    LAMBREW JEANNE
215     LEVITIS JASON    LAMBREW JEANNE
216     MORRISON HELEN    LAMBREW JEANNE
222     LARSEN STEVEN    LAMBREW JEANNE
245     BROOKSLASURE CHIQUITA    LAMBREW JEANNE
249     FONTENOT YVETTE    LAMBREW JEANNE
286     TAVENNER MARILYN    LAMBREW JEANNE
297     HOFF JAMES    HOFF JOANNE
355     HASH MICHAEL    LAMBREW JEANNE
```

Part(iv)

```
hadoop jar Hw1.4 MonthlyAverage <input_path> <temp_path>
<output_path>
```

```
hadoop jar Hw1.4 MonthlyAverage /home/rxs115330/input
/home/rxs115330/temp4 /home/rxs115330/output4
```

Sample output:

```
April    49154.2
August   41037.166666666664
December        58785.0
February        22360.85714285714
January  18676.714285714286
July     38222.142857142855
June     43227.57142857143
March    40043.28571428572
May      37386.0
November        24766.428571428572
October  39685.75
September        27701.625
```

Assumptions:Values which were missing, inconsistent and not able
to process were ignored.
```