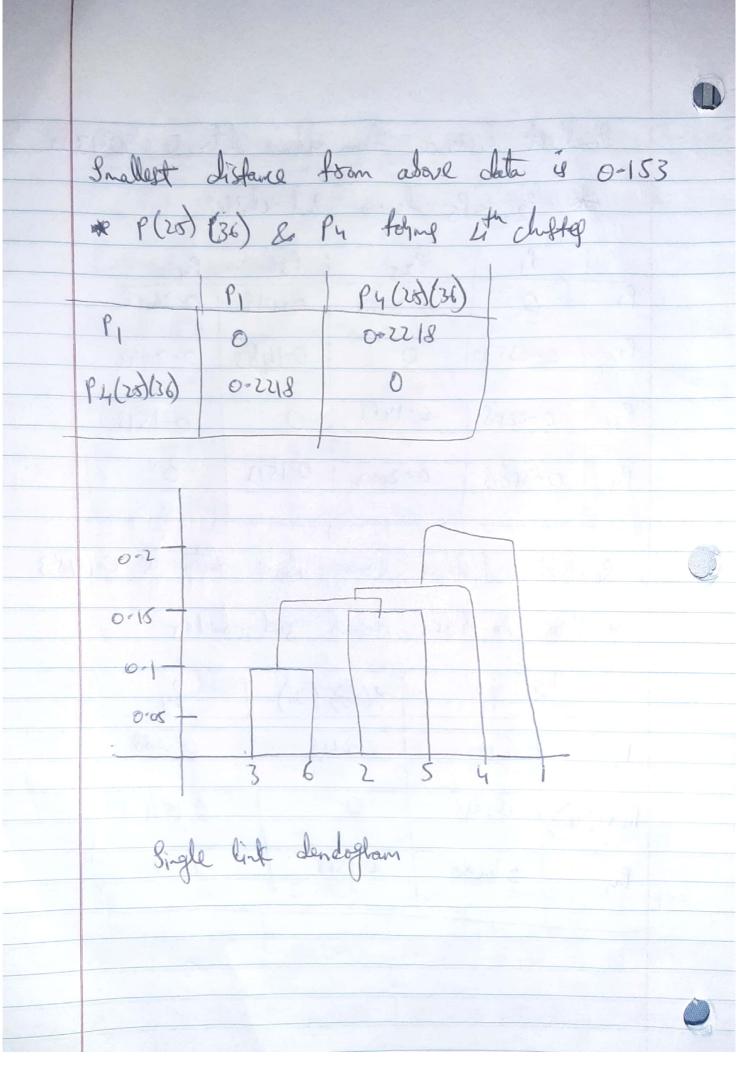
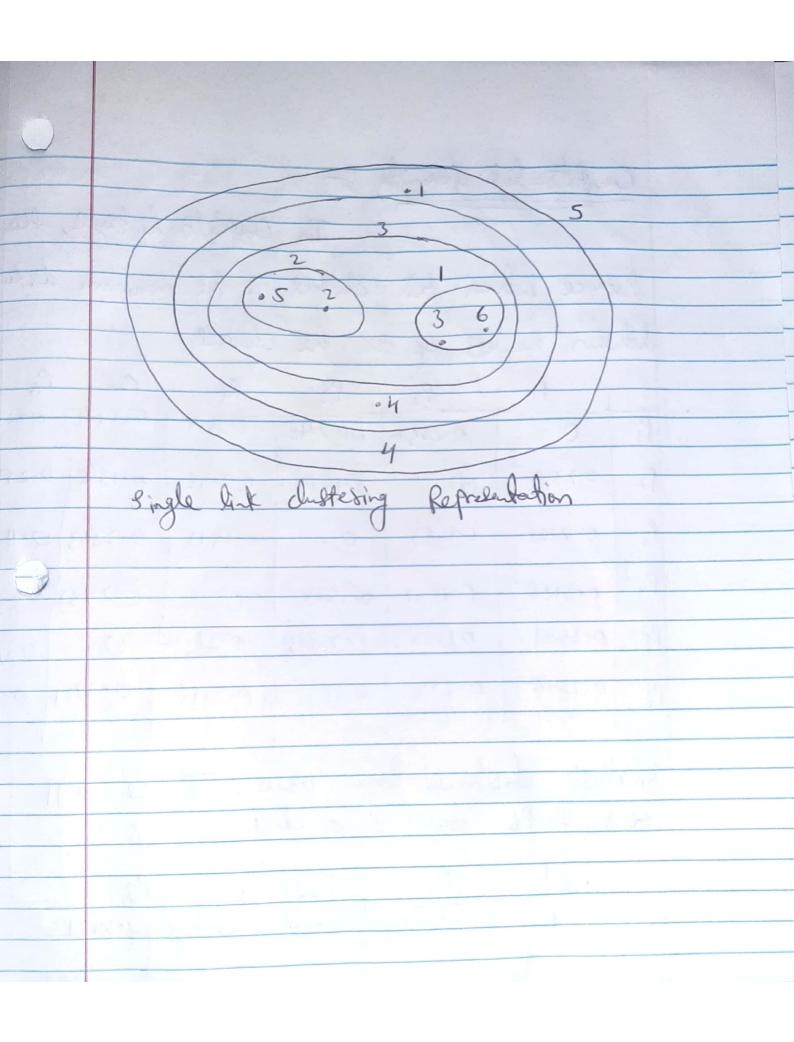
| . 0      | MACHI    | NE LEARNING ASSIGNA | MENT-6                  |  |
|----------|----------|---------------------|-------------------------|--|
| •        | Stilet " | 700741              | 28                      |  |
| 0        | NAME     | - VENKATARA         | MANA RAWRI              |  |
|          | USERTO   | - UXR12810          |                         |  |
| <b>9</b> | Duelfon- | 1                   |                         |  |
|          | Find out | dustering repres    | entations de Dandorglan |  |
|          | Using &  | ingle, Complete and | Avelage link proximity  |  |
|          | function | in fieldschial a    | chiltering Jechnique?   |  |
|          | Post     | X-cooldinate        | 7 Goddinte              |  |
|          | Pi       | 0.04005             | 0.5306                  |  |
|          | Po.      | 0-2148              | 0-3854                  |  |
|          | P3       | 0-3457              | 0.3156                  |  |
| 100      | Py       | 0-2652              | 0-1875                  |  |
|          | Ps       | 0-789               | 0-4139                  |  |
|          | P6       | 0.4548              | 6-3022                  |  |
|          |          |                     |                         |  |
|          |          |                     |                         |  |

| 311 | gle link P | soximity    | Distance   | Setwee | en Awo  | dustes |
|-----|------------|-------------|------------|--------|---------|--------|
| is  | the dista  | nce between | ien the c  | losel  | Poids A | Yo     |
| -   | lance mad  |             |            |        |         |        |
| PI  | P1         | P           | P3 P4      | R.     | 95      | P6     |
| 11  | 0          | 0.2357      | 0.2118 0.3 | 3688   | 0-3421  | 0-234  |
| 12  | 0-2357     |             | 0-1483 0   |        | 0-1388  |        |
| P3  | 0-2218     | 0-1483      | 0          | 0.1513 | 0-2843  | 0-11   |
| Py  | 0-3688     | 0.2042      | 0-1513     | 0      | 0-293   | 2 0-2  |
| P5  | 0.3421     | 0-1388      | 0.2843     | 0-1937 | 0       | 0.392  |
| P6  | 0-2343     | 0-254       | 0-11       | 6.221  | 6 0-39  | 14 0   |
|     | Smallest   | distance    | from abo   | ne da  | ta is   |        |
|     | P          | h           | P3         | Py     | 95      |        |
| PI  | 0          | 6,53        | 0-248      | 0-3688 | 0-34    | 21     |
| PZ  | 0-2357     | 0           | 0-1483     | 0204   | 2 6-1   | 388    |
| P3  | 0.2218     | 0-1483      | 0          | 0-15   | 13 0-   | 2843   |
| Py  | 6.3688     | 0-2042      | 0-1513     | 0      | 0-7     | 1932   |
| PS  | 6-3421     | 0-1388      | 0-2843     | 6.20   | 132     | 0      |

| P1   P2   P36   P4     P1   O   O-2350   O-2018   O-3648     P25   O-2350   O-1483   O-2012     P36   O-2218   O-1483   O   O-1513   O     P4   O-3688   O-2012   O-1513   O     Smalleft disposel from above date is eq1483     P25   So   P36   folials 380   Justical     P1   O   O-2218   O-3688     P25   O-2218   O-3688     P4   O-3688   O-1513   O     P5   O-2218   O-2218   O-1513   O     P5   O-2218   O-2218   O-2218   O-2218     P5   O-2218   O-2218   O-2218   O-2218   O-2218     P5   O-2218   O-2 | 8/14 | malle  | t dist | ance  | Fran | assue d  | Ita & 0-1388  |
|--|------|--------|--------|-------|------|----------|---------------|
| Pr 0-255 0-1483 0-2042  Pr 0-3688 0-2042 0-1513 0  Smallest distance from above date is existed  Pr 0-3688 0-2042 0-1513 0  Smallest distance from above date is existed  Pr 0-3688 0-2042 0-1513 0  Pr 0-3688 0-2042 0-1513 0  Pr 0-3688 0-2048 0-3688  |      | *      | P2 &1  | 's de | luse | 2nd club | tel           |
| Pr 0-255 0-1483 0-2042  Pr 0-3688 0-2042 0-1513 0  Smallest distance from above date is existed  Pr 0-3688 0-2042 0-1513 0  Smallest distance from above date is existed  Pr 0-3688 0-2042 0-1513 0  Pr 0-3688 0-2042 0-1513 0  Pr 0-3688 0-2048 0-3688  |      |        | 91     | Pz    | 5    | P36      | 1 Py          |
| P36 0-2218 0-1483 0 0-1513  P4 0-3688 0-2042 0-1513 0  Smalleft disfaul from about data & e0/483  ** P25 So P36 folials 38d Justier  P1 0 0.2218 0-3688  Pas(36) 0-2218 0 0-1513   | Pi   |        |        |       |      | 0-1118   | 0-3688        |
| Py 0-3688 0-2042 0-1513 0  Smallest disposel from above date & 00/483  * P25 & P36 folials 35d Justest  Py 0 0-248 0-3688  Particles 0-248 0 0-1513  | Pz   | 0      | 4755   | 0     |      | 0-1483   | 0-2042        |
| Py 0-3688 0-2042 0-1513 0  Smalleft disposel from above date & 00/483  * P25 So P36 folias 38d Justes  Py 0 0-2218 0-3688  Res)(36) 0-2218 0 0-1513  | P3   | 6 0    | ,2218  | 0-    | 1483 | 0        | 0-1513        |
| Smalleft disfame from above date & E01483  * P25 & P36 folias 38d chatter  P1 0 0.2218 0-3688  Pax)(36) 0-228 0 0-1513   | Py   | 0.     | 3688   | 0-    | 2042 | 0-1513   | 0             |
| P P25 & P36 folians 300 Justier  P P(25) (36) P4  P 0 0.2218 0-3688  Particol (36) 0.2218 0 0.1513   |      |        |        |       |      |          |               |
| P P(25) (36) P4 P 0 0.2218 0-3688  Parity (36) 0-2218 0 0-1513   | ا    | Ralles | di     | famil | from | abal     | date & 00/483 |
| P(36) 0-228 0-3688   | ×    | P25    | 80     | P36   | John | 384      | Justes        |
| P(36) 0-228 0-3688   |      |        | P.     |       | 18/2 | (+ z)    | P             |
| Par)(36) 0-228 0 0-1513  | - P  |        |        |       |      |          | 5 3/00        |
| (80)   | 1    |        | O      |       | 0.2  | C13      | E) 5630       |
| Py 0.3688 0-1513 0   | Res  | (36)   | 0-22   | VS    | 0    |          | 0-1013        |
|  |      | 1      | 0.36   | 88    | 0-18 | 513      | 0             |
|  | Pu   |        |        |       |      | ,        |               |
|  | Pi   |        |        |       |      |          |               |



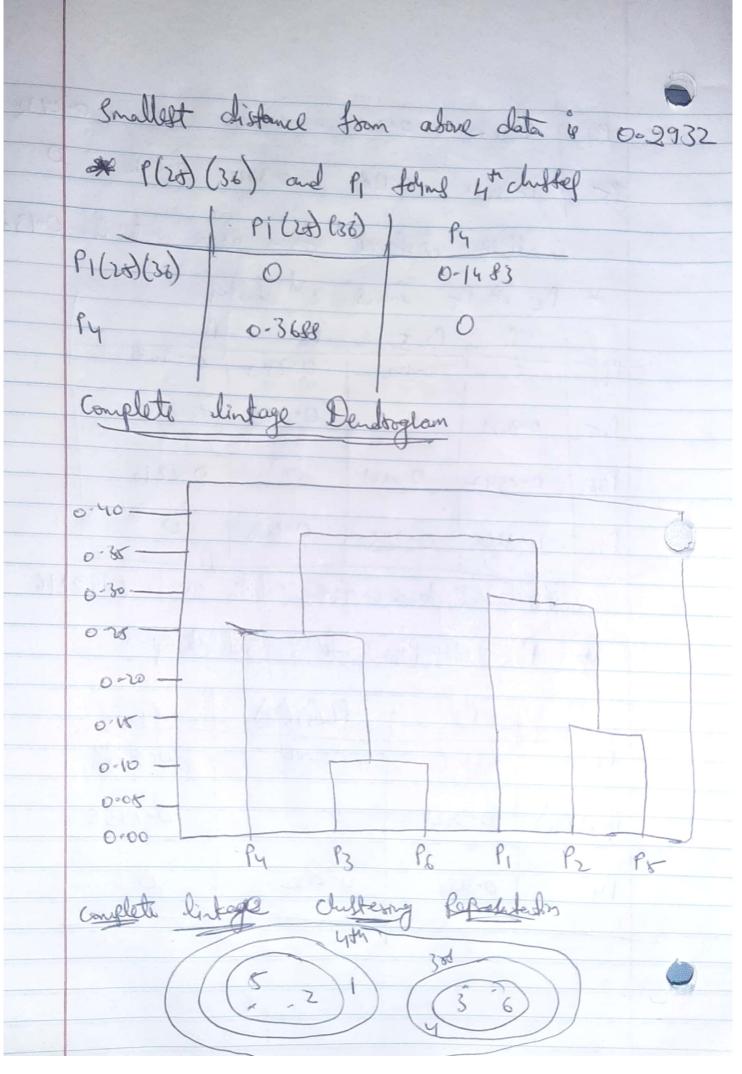






|      | The same | forinit |         | Complete | linkage  | , fle  |
|------|----------|---------|---------|----------|----------|--------|
| list | ance beh |         |         |          |          |        |
|      | een neul |         |         |          |          |        |
|      |          | Pz      |         | Pu       | Po       | PE     |
| Pi   | .0       | 0.2357  | 1       | 0-3688   | 0-3421   | 0 > 2  |
| P2   | 0-1327   | 0       | 0-1483  | 0-2092   | 0-1388   | 0=25   |
| P3   | 0-241    | 0-1483  | D       | 0-1513   | 0-2893   | 0-11   |
| Py   | 0-3688   | 0-2042  | 0-1513  | 0        | 0-293    | 2 . 0- |
| Po   | 0-3421   | 0-1388  | 0-2843  | 0-2937   |          | 5-30   |
| P6   | 0.2347   | 0.254   | 0-11    | 0-2216   | 0-39     | 40     |
| 0    | allest I | · s-A0  | Iron al |          | 80.      |        |
|      | P3 2 P6  |         |         |          | Q O.     | 11     |
|      | P        | 1. 62   | P36     | 1 Pg     | P5       |        |
| PI   | 0        | 0 = 235 |         | 43 0.368 | 8 0-3421 |        |
| PZ   | 0.532    | ) O     | 0=25    | 4 6-200  | 12 0-13  | 88     |
|      | 5 0-230  | V-0-5   | 54 0    | 0-2216   | 0520     | 40     |

|     |       | 1      |       |          |                        |             |          |
|-----|-------|--------|-------|----------|------------------------|-------------|----------|
| 0.4 | Py    | 0-     | 3688  | 0=204    | 2 0-221                | 6 0         | 0-2932   |
|     | Po    | 6-     | 3421  | 0-1388   | 8 0392                 | 0-2932      | _0       |
|     |       | Snall  | eff   | distance | from a                 | bax data is | 0-1388   |
|     | *     | P2     | do Po | folial   | 2nd child              | tel         |          |
|     |       | 1      |       | P25      | P36                    | 184         | 0        |
|     | P     | 0      |       | 0-3421   | 0 = 2348               | 0-3688      |          |
|     | Pro   | 627    | 421   | 0        | 6-3921                 | 0=2932      |          |
|     | P36   | 0 = 7  | 2342  | 0-3921   | 0                      | 0-2216      |          |
|     | Py    | 6-     | 31,58 | 0-2932   | 0-22/6                 | 0           |          |
|     | 9,    | Lalles | tal   | Stance   | from date              | 4 9 00      | 246      |
|     | ×     |        |       |          | Johns 3k               | 1 Child     |          |
|     |       |        | ^3    |          |                        |             |          |
|     |       | -      | P     |          | P(20) (36)             | Py          | <u>)</u> |
|     | 11    | 1      | 0     |          | 0.342                  | 0-3688      |          |
|     | P(20) | (36)   | 0-3   | 421      | 0                      | 5-298       |          |
| - 2 | Py    |        | 0-36  | £8       | 0-2932                 | 0           |          |
|     |       |        |       | 4 14-    | 1.00                   |             | <i>A</i> |
|     |       | 1      |       |          | Property of the second |             |          |
| )   |       |        | 12017 |          | 7                      | 1 1         |          |



| Aves  | age link o  | - Dist     | fance bel   | husean c  | helter i | S      |
|-------|-------------|------------|-------------|-----------|----------|--------|
| dista | nce between | n the      | duster.     | centroso  | lg.      |        |
|       | 0 60        |            |             | FOR STATE |          |        |
| Dista | nce Matrix  | <u>'</u> 5 |             |           |          |        |
| Pi    | 1           | P-2357     | P3 0-2218 1 |           |          | 0-2347 |
| R     | 0+1357      | 0          |             |           | 0-1388   |        |
| P3    | o.rus       | 0-1483     | 0           | 0-1573    | 0-2843   |        |
| Py    | 0-3688      | 0.2042     | 0.1213      | 0         | 0-2932   | 0.2246 |
| PS    | 0.3421      | 0-1388     | 0-2843      | 0-293     | 52 0     | 0-3921 |
| 96    | 0-2348      | 0.254      | 0-11        | 0-221     | 6 0-39   | 1 0    |
| Sr.   | allest di   | Stance of  |             |           |          | 0-11   |

|           |         |                      |                  | 0.3188 0              |        |
|-----------|---------|----------------------|------------------|-----------------------|--------|
| P2        | 0=1329  | 0                    | 0.2015           | 0=2042                | 0-1388 |
| P36       | 0-22828 | 0-2011               | 0                | 0-18645               | 6-338  |
| Py        | 0-3488  | 0-2042               | 0-18642          | 0                     | 0-293  |
| Po        | 0-3421  | 0-1388               | 6-3382           | 0-2932                | 0      |
| P         | P2 & P3 | P25 )                | P36 1            | Py                    |        |
| PI        |         | P25 )                | P36 1            | feg<br>fy<br>0-3688   |        |
| Pi Pro    |         |                      |                  | 0-3688                | 7      |
| Pi        | 0       | P25 )                | 636 1<br>0-5349- | 0-3688                | 11     |
| Pi<br>Prs | 0.2889  | P25 \<br>0-2889<br>0 | 636 1<br>0-5249- | P4 0-3688<br>70 0-248 | 11     |

Snallest distance from above data is 00/8645 So Per LP36 forms 38d chifter 1 p(28)(36) | Py 0-3688 0-2618 P25 (36) 0-2618 0-4754 0-4787 6 0-3688 Table -4 he smallest distance from Above data & 0.217575 Ph (36) 0-3153 Pags 6) T0-3/53 Avelage Linkage Dendoglan 0-20 0415 6-65 PB Py

