1. Write a program to calculate speed
2. create a sorted list in increasing order and decreasing order using below

Sample list: [‘iPhone’, ‘Mi,’,’Vivo’,’OnePlus’]

1. Sort multi-dimensional List . mList=[[11,2,23],[2,14,9],[1,8,7]]
2. Access items using index range. Specifying a range, the return value will be a new tuple with the specified items ex:[2:5] index 2 to 4(5 not included) and [-5:-1]
3. Search item in a tuple . user defined item presents in a tuple its print “yes , search item is in tuple “ otherwise print “No, search is not found”
4. Using index() method Search item’s first occurrence- ex: tuple=(1,3,5,4,1,2,4,1,2,5,1,2,4,2,8,4) If user enter 4 its return its position 3 (index number)
5. perform union() returns a new set with all items from both sets

set A={‘A’,’B’,’C’,1,3}

set B= {1,’A’,’D’,3,4,5}

1. Modifying object properties

**sample output:**

Students Details:

Name: Mohan

Course: M.TECH

After Modifying the details:

Students Details:

Name: Mohan

Course: MBBS

1. Write a program to call parent class using super()
2. Using single inheritance method to perform Addition and multiplication function

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | 1 |  |  |  |  |
|  |  |  | 1 |  | 2 |  |  |  |
|  |  | 1 |  | 2 |  | 3 |  |  |
|  | 1 |  | 2 |  | 3 |  | 4 |  |
| 1 |  | 2 |  | 3 |  | 4 |  | 5 |
|  | 2 |  | 3 |  | 4 |  | 5 |  |
|  |  | 3 |  | 4 |  | 5 |  |  |
|  |  |  | 4 |  | 5 |  |  |  |
|  |  |  |  | 5 |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| 11. | 11 |  |  |  |  |  |  |  |
|  |  |  |  | A |  |  |  |  |
|  |  |  | B |  | B |  |  |  |
|  |  | C |  | C |  | C |  |  |
|  | D |  | D |  | D |  | D |  |
| E |  | E |  | E |  | E |  | E |
|  | D |  | D |  | D |  | D |  |
|  |  | C |  | C |  | C |  |  |
|  |  |  | B |  | B |  |  |  |
|  |  |  |  | A |  |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | 1 |  |  |  |  |
|  |  |  | 2 | 2 | 2 |  |  |  |
|  |  | 3 | 3 | 3 | 3 | 3 |  |  |
|  | 4 | 4 | 4 | 4 | 4 | 4 | 4 |  |
|  |  | 3 | 3 | 3 | 3 | 3 |  |  |
|  |  |  | 2 | 2 | 2 |  |  |  |
|  |  |  |  | 1 |  |  |  |  |



|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | S |  |  |  |  |
|  |  |  |  | O |  |  |  |  |
|  |  |  |  | F |  |  |  |  |
|  |  |  |  | T |  |  |  |  |
| S | O | F | T | W | A | R | E | S |
|  |  |  |  | A |  |  |  |  |
|  |  |  |  | R |  |  |  |  |
|  |  |  |  | E |  |  |  |  |
|  |  |  |  | S |  |  |  |  |



WAVE PATTERN

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 5 | 6 | 7 | 8 |  |  | 17 | 18 | 19 | 20 |  |  | 29 | 30 | 31 | 32 |
|  | 4 |  |  | 9 |  |  | 16 |  |  | 21 |  |  | 28 |  |  | 33 |
|  | 3 |  |  | 10 |  |  | 15 |  |  | 22 |  |  | 27 |  |  | 34 |
| 1 | 2 |  |  | 11 | 12 | 13 | 14 |  |  | 23 | 24 | 25 | 26 |  |  | 35 | 36 |

1. Odd or Even Using OOPs Concept