|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 6 | 3 | 9 | 5 | 2 | 8 |

4th Less than pivot And Previous element is greater than this element, so these two get swap

**1st Iteration**

3rd greater than pivot, now it will be in temporary index

2nd less than pivot

1st less than pivot

Pivot

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 6 | 3 | 5 | 9 | 2 | 8 |

4th Still it’s in temporary index

5th Less than pivot And Previous element is greater than pivot so these two get swap

Pivot

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 6 | 3 | 5 | 2 | 9 | 8 |

5th Still it’s in temporary index because it’s greater than pivot

6th When greater elements reach pivot, the pivot will shift those right side of it.

Pivot

After 1st Iteration the list

9

|  |  |  |  |
| --- | --- | --- | --- |
| 6 | 3 | 5 | 2 |

|  |
| --- |
| 8 |

Pivot

9

8

|  |  |  |  |
| --- | --- | --- | --- |
| 6 | 3 | 5 | 2 |

4th This is smallest in list, that’s why it will swap at 1st index.

3rd greater than pivot, now it will be in temporary index

2nd greater than pivot, now it will be in temporary index

1st greater than pivot, now it will be in temporary index

**2nd Iteration**

After 2nd Iteration the list

9

8

2

|  |  |  |
| --- | --- | --- |
| 6 | 3 | 5 |

**3rd Iteration**

Pivot

9

8

2

|  |  |  |
| --- | --- | --- |
| 6 | 3 | 5 |

2nd less than pivot, and less than previous element so swap

1st greater than pivot, now it will be in temporary index

Pivot

9

8

2

|  |  |  |
| --- | --- | --- |
| 3 | 6 | 5 |

6

9

8

After 3rd Iteration list

5

3

2

3rd When greater elements reach pivot, the pivot will shift those right side of it.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 2 | 3 | 5 | 6 | 8 | 9 |

**This is the final sorted list After Conquering all Elements**