HashSet vs TreeSet

1. HashSet gives better performance (faster) than TreeSet for the operations like add, remove, contains, size etc., HashSet offers constant time cost while TreeSet offers log(n) time cost for such operations
2. HashSet does not maintain any order of elements while TreeSet elements are sorted in ascending order by default

Similarities:

1. Both HashSet and TreeSet does not hold duplicate elements, which means both are duplicate free.
2. If you want a sorted Set then it is a better to added elements to HashSet and then convert it into TreeSet rather than creating a TreeSet and adding elements to it.
3. Both of these classes are non – synchronized that means they are not thread – safe and should be synchronized explicitly when there is a need of thread – safe operations.