Gene 20'ch

```
package practèce;
impost java. util. ";
public class Collection Demo {
     public static void main (String []args) {
      TheeSet the new TheeSet ();
       ts. add (30);
       ts.add (50);
       ts. add (20);
       ts.add(10);
       ts.add (40);
      System.out. println (ts);
Output :-
 [10, 20, 30, 40, 50]
```



```
Padrage phactice;
impost java.util. *;
public class Collections Demo &
     public static void main (String []args) {
     TheeSet ts = new TheeSet();
      ts.add ("gilly");
ts.add ("billy");
      ts.add ("silly");
      ts.add("Zilly");
      ts.add ("tilly");
      System. Out. println (ts);
Output :0
 [billy, gilly, Billy, tilly, Zelly]
```



```
package phactice;
impost java. util. ;
public class collections Demo {
      public static void main (String[] args) {
      Thee Set ts = new Thee Set ();
      ts.add (" gilly");
      ts. add (false);
      ts.add (5.84);
       ts.add (555);
      ts.add('z');
      System. out. println (ts);
Out put:
 Exception in "main" java. lang. Class Cast Exception.
```



- A Taee Set presents the output in the souted order.
- * It works fine as long as we are providing homogeneous data (data of same type).
- However, when we provide heterogeneous data to a Treeset, it is unable to soft the data and instead returns Class Cast Exception.
- To ensure that an exception is not generated we must first ensure that only homogeneous data is provided to a Tree Set.
- * For achieving this, we can make use of brenerics
- E.g: Theeset < Integer > ts = new Theeset < Integer >();

The above statement will ensure that the Thee Set its only stores data of the Integer type.



```
package plactice;
impost java.util. *;
public class Collections Demo {
     public static void main (string[] args) {
      Tree Set < Integer > ts = new Tree Set < Integer > ();
      ts. add ("gilly");
       ts.add (false);
       ts.add (5.84);
       ts.add (555);
       ts. add ('z');
      System. Out. println (ts);
Output:
Compile-time Exhor
```



```
package praetice;
impost java util. *;
public class Collections Demo {
    public static void main (String [] args) {
    Thee Set < String > ts = new Thee Set < String > ();
     ts.add ("gelly");
     ts.add (false);
     ts.add(5.84);
     ts. add (555);
     ts.add('z');
    System. out. pountln (ts);
Output:
 Compile-time Earoa
```

