

Jenerics Part 2



```
*20-12-2022_generics_class_oopnet - Notepad
File Edit View
Nitin Kalyanath
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UTF-8
ENG IN 1943 20-12-2022
```

```
class Demo<T>{
    |=> TypeParameter
}
class Demo<X,Y>{
}
class HashMap<K,V>{
}
HashMap<Integer,String> hm = new HashMap<Integer,String>();
hm.put(
```

*20-12-2022_generics_class_notes - Notepad
File Edit View
Nitin Manjrekar



keyPoints about BoundedTypes

=> As the type parameter we can use any valid java identifier but it convention to use T always.

eg: class Test<T>{}

```
class Test<iNeuron>{}
```

=> We can pass any no of type parameters need not be one.

eg: class HashMap<K,V>{}

```
HashMap<Integer,String> h=new HashMap<Integer,String>();
```

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Which of the following are valid?

```
class Test<| extends Number&Runnable> { // valid  
Number -> class  
Runnable -> interface
```

```
class Test<T extends Number&Runnable&Comparable> {} //valid
```

Runnable -> interface
Comparable -> interface

```
class Test<T extends Number&String> {} //invalid  
we can't extends more than one class at a time.
```

```
class Test<T extends Runnable&Comparable> {}  
class Test<T extends Runnable&Number> {}
```

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```
*20-12-2022-generics_class_notes - Notepad
File Edit View
Runnable-> interface

class Test<T extends Number&Runnable&Comparable> {} //valid
Number -> class
Runnable-> interface
Comparable -> interface

class Test<T extends Number&String> {} //invalid
we can't extends more than one class at a time.

class Test<T extends Runnable&Comparable> {} //valid
Runnable-> interface
Comparable -> interface

class Test<T extends Runnable&Number> {}//invalid
Runnable-> interface
Number -> class
rule: first inherit and the implement so invalid|
```

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20.12.2022 generics-classes.pptx - Notepad

File Edit View

```
class Test<T extends Runnable&Comparable> {} //valid

Runnable-> interface
Comparable -> interface

class Test<T extends Runnable&Number> {}//invalid

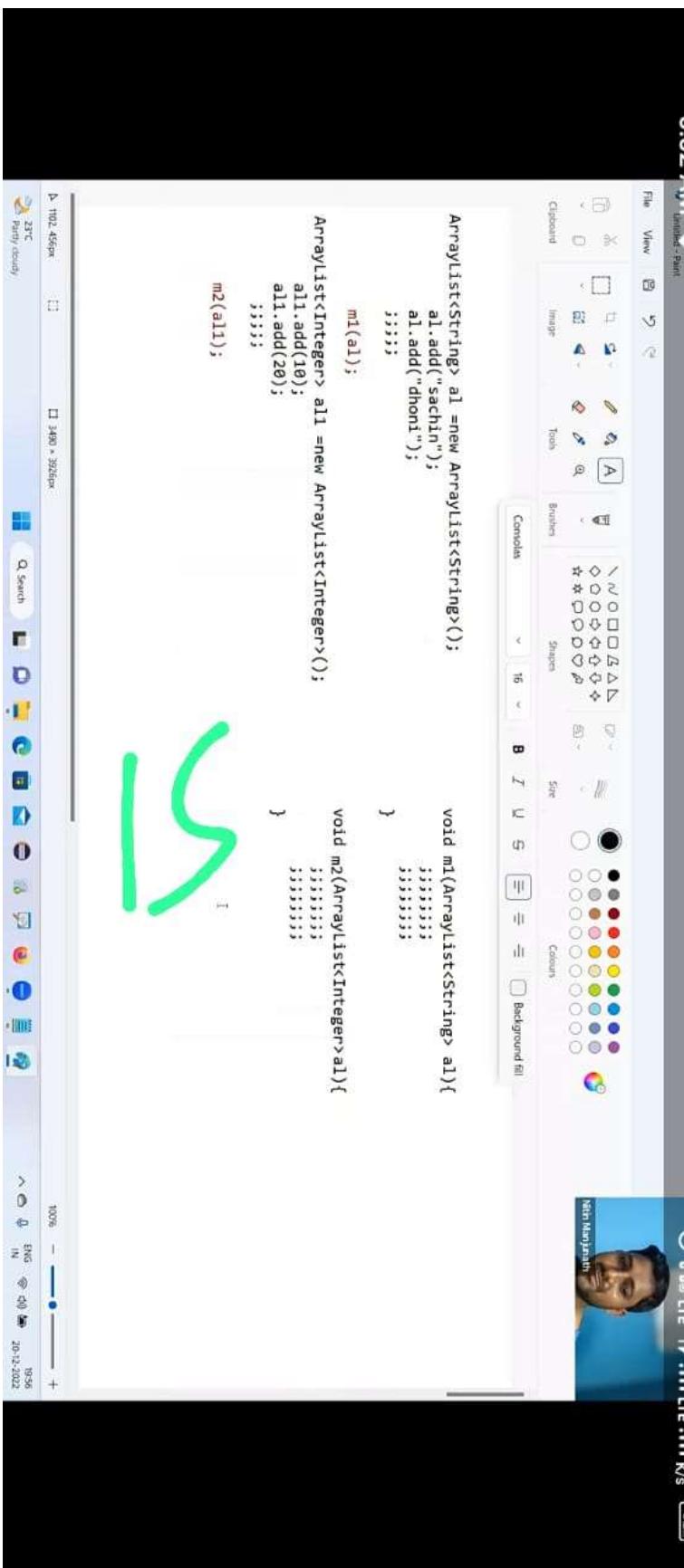
Runnable-> interface
Number -> class
rule: first inherit and the implement so invalid

GenericClass
=====

class: Type parameter
```

Can we apply TypeParameter at MethodLevel?
Ans.Yes, it is possible.

Nitin Manjrekar



```
20-12-2022 generic-class-note - Notepad  
File Edit View  
=====  
1. methodOne(ArrayList<String>a):  
This method is applicable for ArrayList of only String type.  
  
methodOne(ArrayList<String>a){  
    a.add("sachin");  
    a.add("navinreddy");  
    a.add("INeuron");  
    a.add(new Integer(10));//invalid  
}  
  
2. methodOne(ArrayList<?>a):  
This method is applicable for ArrayList of any type.  
methodOne(ArrayList<String> a){  
    a.add("sachin");  
    a.add("navinreddy");  
    a.add("INeuron");  
    a.add(new Integer(10));//invalid  
}
```

16



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20-12-2022 genetics-class-notes - Notepad

File Edit View

```
a.add("navinreddy");
a.add("Neuron");
a.add(new Integer(10));//invalid
}
```

2. methodOne(ArrayList<?>a):
This method is applicable for ArrayList of any type.

methodOne(ArrayList<?> a){
a.add("navinreddy");//invalid
a.add("Neuron");//invalid
a.add(new Integer(10));//invalid
}

Ln 56 Col 22

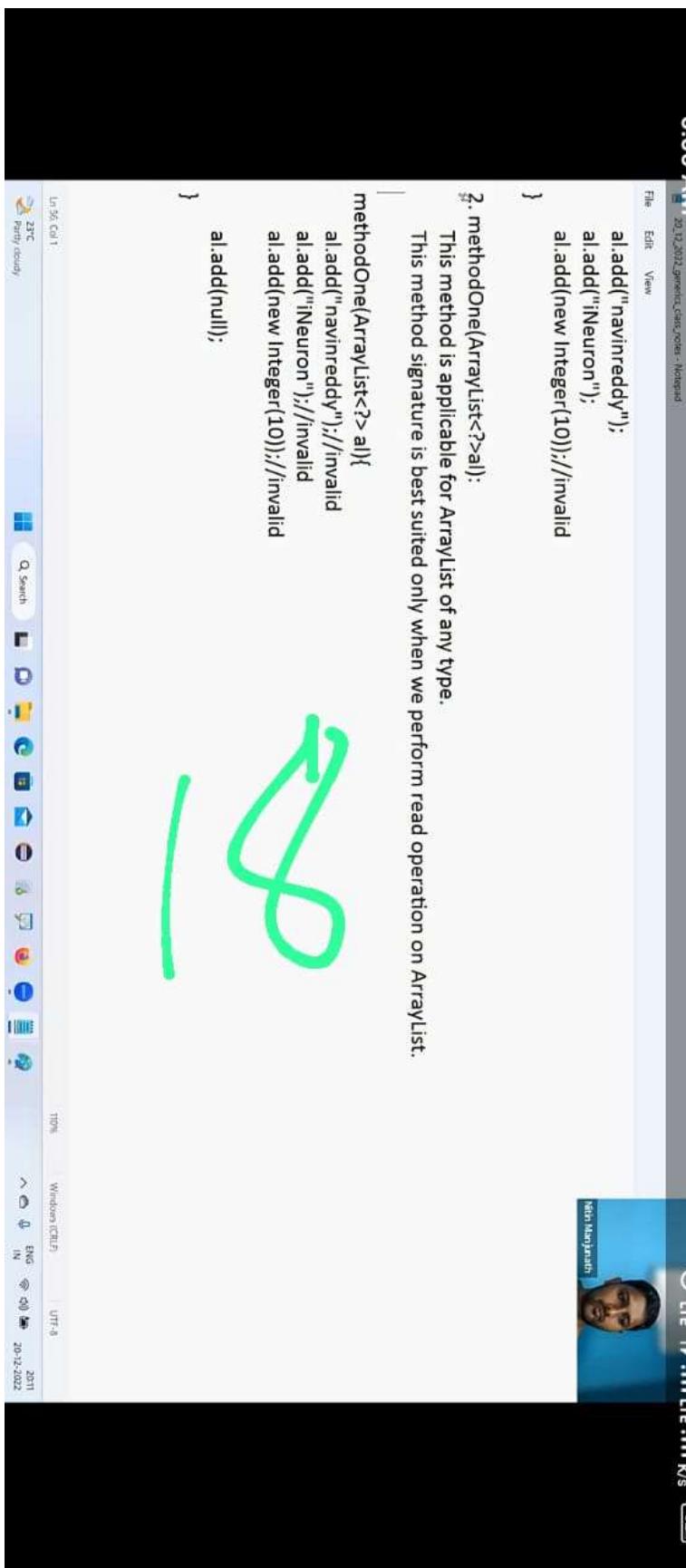
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```
File Edit View  
20-12-2012 - Geometric Class Notes - Notepad  
}  
  
al.add("navinreddy");  
al.add("Neuron");  
al.add(new Integer(10));//invalid
```

Within the method we can add only String type of objects and null to the List.

We can use this method:

Example:

```
l.add(null); // (valid)
l.add("A");//(invalid)
l.add(10);//(invalid)
```

This method is useful whenever we are performing only read operation.

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20-12-2022-generic-class-notes - Notepad

File Edit View

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```
3. methodOne(ArrayList<? extends X> al)
X-> class, we can make a call to method by passing ArrayList of X type or its Child type.
X-> interface, we can make a call to method by passing ArrayList of X type or its Implementation class.

methodOne(ArrayList<? extends X> al){
    al.add(null);
}

4. methodOne(ArrayList<? super X> al)
X-> class, we can make a call to method by passing ArrayList of X type or its super class
X-> interface, we can make a call to method by passing ArrayList of X type or its super class of implementation class of x.
```

methodOne(ArrayList<? super X> al){
 al.add(X);
 al.add(null);
}

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Note.

Which of the following declarations are allowed?

- ```
4. ArrayList<? extends Number> l4=new ArrayList<Integer>(); //valid
5. ArrayList<? extends Number> l5=new ArrayList<String>(); //invalid
6. ArrayList<?> l6=new ArrayList<? extends Number>(); //invalid
7. ArrayList<?> l7=new ArrayList<?>(); //invalid
```

With Manipulation



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20-12-2022-generic-class-exercise - Notepad

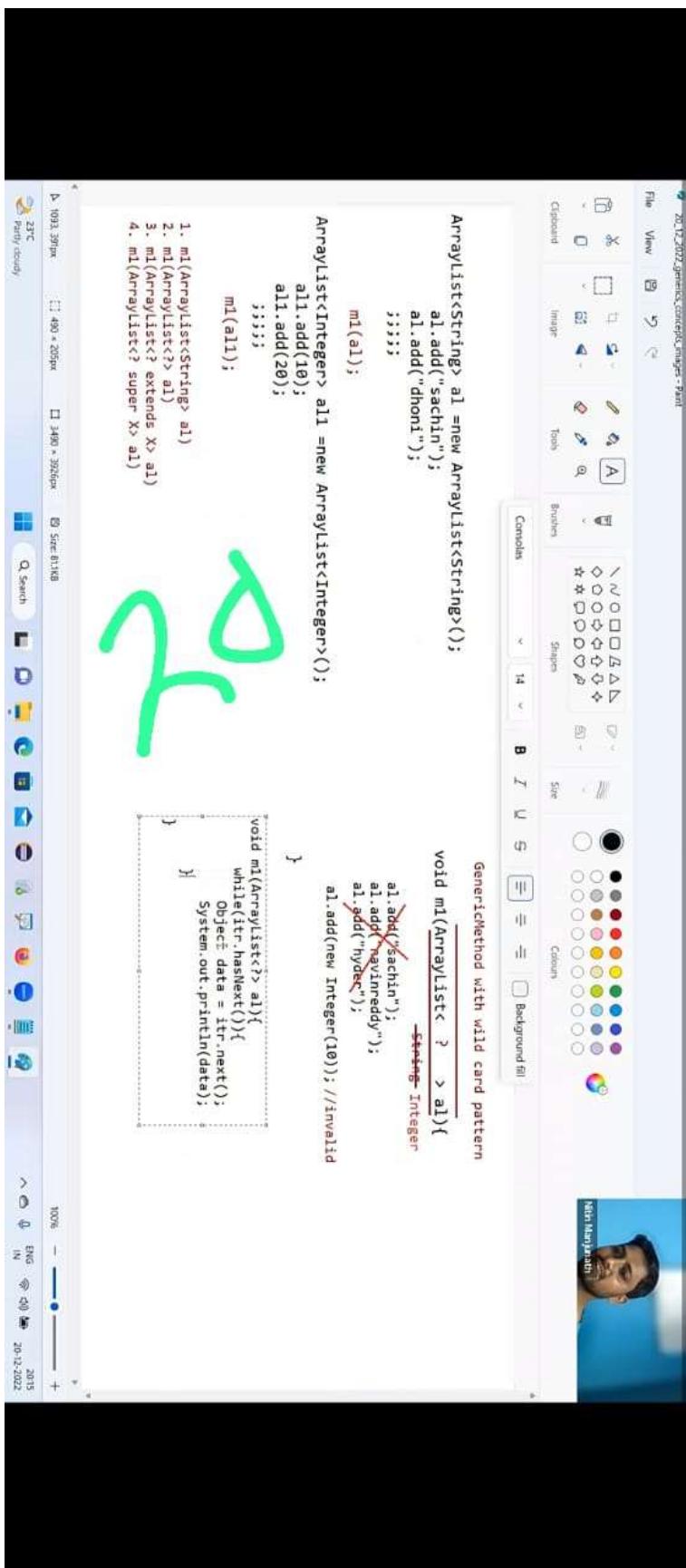
File Edit View

```
class Demo<T>{
 |=> Type parameter defined just before the return type
 public <T> void m1(T t){
 }
}
```

Which of the following declarations are allowed?

public<T> void methodOne1(T t){  
 ^  
public<T extends Number> void methodOne2(T t){  
public<T extends Number&Comparable> void methodOne3(T t){  
public<T extends Number&Comparable&Runnable> void methodOne4(T t){  
public<T extends Number&Thread> void methodOne(T t){  
public<T extends Runnable&Number> void methodOne(T t){  
public<T extends Number&Runnable> void methodOne(T t){

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The screenshot shows an IDE interface with a Java code editor. The code is annotated with numbers 1 through 25 and a green hand-drawn arrow pointing from the end of line 15 to the start of line 16.

```
1 //MethodOverloading
2 public void m1(ArrayList a){}
3 public void m1(ArrayList b){}
4
5 public static void main(String[] args)
6 {
7 ArrayList a = new ArrayList();
8 ArrayList b = new ArrayList();
9 m1(a);
10 m1(b);
11 }
12
13 }
14
15 }
16 // 1. Compiler will scan the code
17 // 2. Check the argument type
18 // 3. if Generics found in the argument type remove the Generics syntax
19 // 4. Compiler will again check the syntax
20
21
22 Arrays =====> TypeSafety(data should be homogeneous, so type casting problem won't come)
23 Collection =====> Use generics and Promote TypeSafety
24
25
```

A green hand-drawn arrow points from the end of line 15 to the start of line 16, highlighting the transition between the two methods.

```
20-12-2022 generic class notes - Notepad
File Edit View
class Demo<T>{
```

|=> Type parameter defined just before the return type  
public <T> void m1(T t){

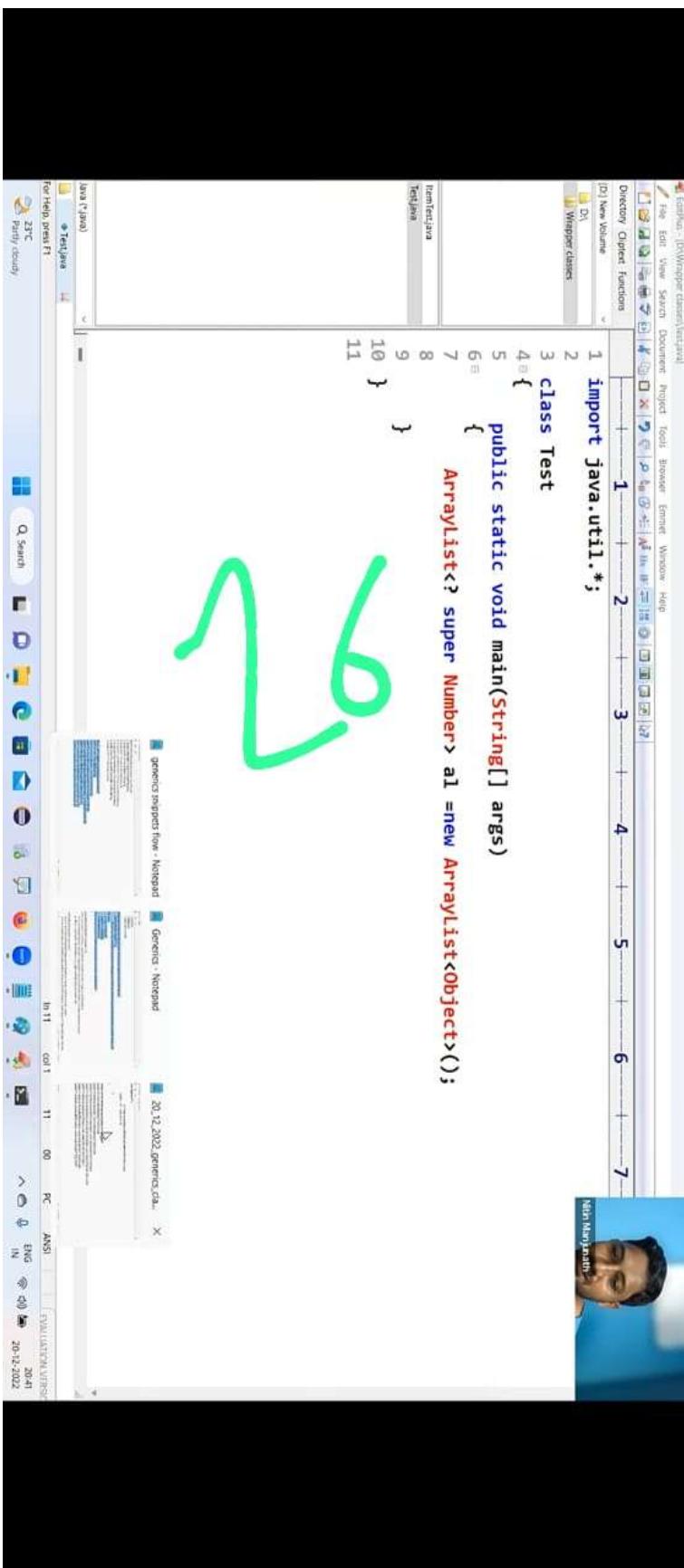
```
}
```

Which of the following declarations are allowed?

```
public <T> void methodOne1(T t){//valid
public<T extends Number> void methodOne2(T t){//valid
public<T extends Number&Comparable> void methodOne3(T t){//valid
public<T extends Number&Comparable&Runnable> void methodOne4(T t){//valid
public<T extends Number&Thread> void methodOne(T t){//invalid
public<T extends Runnable&Number> void methodOne(T t){//invalid
public<T extends Number&Runnable> void methodOne(T t){//valid|
```

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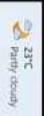


```
1 import java.util.*;
2
3 class Test
4 {
5 public static void main(String[] args)
6 {
7 ArrayList<? super Number> al = new ArrayList<Object>();
8
9 }
10
11 }
```

The image shows a video frame of a person speaking. In the foreground, a computer monitor displays a Java code editor window titled "Eclipse (DWWhisper classes (internal))". The code in the editor is:

```
public int indexOf(java.lang.Object);
public int lastIndexOf(java.lang.Object);
public java.lang.Object clone();
public java.lang.Object[] toArray();
public <T> T[] toArray(T[]);
E elementData(int);
public E get(int);
public E set(int, E);
public boolean add(E);
public void add(int, E);
public E remove(int);
public boolean remove(java.lang.Object);
public void clear();
public boolean addAll(java.util.Collection<? extends E>);
public boolean addAll(int, java.util.Collection<? extends E>);
protected void removeRange(int, int);
public boolean removeAll(java.util.Collection<?>);
public boolean retainAll(Collection<?>);
public java.util.ListIterator<E> listIterator();
public java.util.ListIterator<E> listIterator(int);
public java.util.Iterator<E> iterator();
public java.util.List<E> subList(int, int);
static void subListRangeCheck(int, int, int);
public void forEach(java.util.function.Consumer<? super E>);
public java.util.Spliterator<E> spliterator();
public boolean removeIf(java.util.function.Predicate<? super E>);
public void replaceAll(java.util.function.UnaryOperator<E>);
public void sort(java.util.Comparator<? super E>);
static int access$000(java.util.ArrayList);
static {};
```

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Directory Object Functions

[D] New Volume

D) Wimpel classes

ItemTest.java

Test.java

```
1 import java.util.*;
2
3 class Test
4 {
5 public static void main(String[] args)
6 {
7 //working with generic code(JDK1.5V)
8 ArrayList<String> al = new ArrayList<String>();
9 al.add("sachin");
10 al.add(new Integer(10));//CE
11 al.add(new Boolean(true));//CE|
12
13 System.out.println(al);
14
15 }
16
17 //working with Non-generic code(jdk1.4V)
18 public void m1(ArrayList al){
19 al.add(10);
20 al.add("sachin");
21 al.add(true);
22 }
Java (*.java)
* Test.java
For Help press F1
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```

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```
TypeParameter at Method level
=====
public <T> void m1(T t){
 class Demo<T>{
 |=> TypeParameter
 }
}
```

$\Rightarrow$  TypeParameter

```
|=> Type parameter defined just before the return type
public <T> void m1(T t){
```

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Directory Object Folders

[D:] New Volume D:\ Whisper classes

Item Test.java Test.java

```
1 public static void main(String[] args)
2 {
3 //working with generic code(JDK1.5V)
4 ArrayList<String> al = new ArrayList<String>();
5 al.add("sachin");
6 al.add("dhoni");
7 m1(al);
8
9 System.out.println(al); //["sachin",10,"dhoni",true]
10
11
12
13
14
15
16
17
18 //working with Non-generic code(JDK 1.4V)
19 public static void m1(ArrayList al){//ArrayList al = new ArrayList<String>();
20 al.add(10);
21 al.add("dhoni");
22 al.add(true);
23 }
24 }
```

Java (\*.java) Test.java For Help press F1 22°C Party cloudy

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10

Nitin Mehta

22°C Party cloudy

Q. Search

Min Max Temp

Wind Speed

Cloud Cover

Humidity

UV Index

Pressure

Temperature

Wind Direction

Time

20-12-2022 21:12

Command Prompt

```
D:\Wrapper\classes>javac Test.java
Note: Test.java uses unchecked or unsafe operations.
Note: Recompile with -Xlint:unchecked for details.

D:\Wrapper\classes>java Test
[sachin, 10, dholi, true]

D:\Wrapper\classes>
```



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Directory Object Functions

[D] New Volume [D] Whisper classes

Item Test.java

Test.java

3 class Test

4 {

5 public static void main(String[] args)

6 {

7 ArrayList al1 =new ArrayList<Integer>();

8 al1.add("sachin");

9 al1.add("dhoni");

10

11 ArrayList al2 =new ArrayList<String>();

12 al2.add(10);

13 al2.add(10.5);

14 al2.add("sachin");

15

16 //Generics concept is applicable at Compiler level and at the runtime

17 // we don't have the concept of generics

18 ArrayList al =new ArrayList();

19

20

21

22

Java (\*.java)

\* TestJava

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Directory Object Functions

[D] New Volume

D:\ Whisper classes

Item Test.java

TextArea

Java (\*.java)

\* TestJava

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1 2 3 4 5 6 7

```
//MethodOverloading
public void m1(ArrayList a){}
public void m1(ArrayList b){}

public static void main(String[] args)
{
 // 1. Compiler will scan the code
 // 2. Check the argument type
 // 3. if Generics found in the argument type remove the Generics syntax
 // 4. Compiler will again check the syntax
}

Arrays =====> TypeSafety
Collection
```

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Nitin Mehta

File Edit View

### Conclusions:

Generics concept is applicable only at compile time, at runtime there is no such type of concept. At the time of compilation, as the last step generics concept is removed, hence for jvm generics syntax is removed. Hence the following declarations are equal.

```
ArrayList l=new ArrayList<String>();
ArrayList l=new ArrayList<Integer>();
ArrayList l=new ArrayList<Double>();
```

```
All are equal at runtime,bcoz compiler will remove these generics syntax
ArrayList l=new ArrayList();
```

```
Example 1:
import java.util.*;
class Test {
```

```
public static void main(String[] args) {
 System.out.println("Hello, World!");
}
```

File Edit View  
20-12-2012 generic Class covs - Notepad

### Example 3:

The following 2 declarations are equal.

```
ArrayList<String> l1=new ArrayList();
ArrayList<String> l2=new ArrayList<String>();
```

For these ArrayList objects we can add only String type of objects.

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D:\Wrapper\classes>javap java.util.TreeSet

Compiled from "TreeSet.java"

```
public class java.util.TreeSet<E> extends java.util.AbstractSet<E> implements java.util.NavigableSet<E>, java.lang.Comparable<E> {
 public Serializable TreeSet(java.util.NavigableMap<E, java.lang.Object>);

 public java.util.TreeSet();
 public java.util.TreeSet(Comparator<? super E>);
 public java.util.TreeSet(Collection<? extends E>);
 public java.util.TreeSet(java.util.SortedSet<E>);
 public java.util.Iterator<E> iterator();
 public java.util.Iterator<E> descendingIterator();
 public java.util.NavigableSet<E> descendingSet();
 public int size();
 public boolean isEmpty();
 public boolean contains(Object);
 public boolean add(E);
 public boolean remove(Object);
 public void clear();
 public boolean addAll(Collection<? extends E>);
 public java.util.NavigableSet<E> subSet(E, boolean, E, boolean);
 public java.util.NavigableSet<E> headSet(E, boolean);
 public java.util.NavigableSet<E> tailSet(E, boolean);
 public java.util.SortedSet<E> subSet(E, E);
 public java.util.SortedSet<E> headSet(E);
 public java.util.SortedSet<E> tailSet(E);
 public java.util.Comparator<? super E> comparator();
 public E first();
 public E last();
 public E lower(E);
 public E floor(E);
 public E ceiling(E);
 public E higher(E);
```

```
20-12-2022 generic-class-comparat-Notepad
File Edit View
l1.add("A");//valid
l1.add(10);//invalid

Comparable vs Comparator
=====
public TreeSet();
|=> When we use the above constructor,JVM will internally use Comparable interface method to sort the Objects
based on default natural sorting order.

What is Comparable interface?
It is a functional interface present in java.lang package.
This interface is internally used by TreeSet object during sorting process.

@FunctionalInterface
public interface java.lang.Comparable<T> {
 public abstract int compareTo(T);
}
```

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Directory Object Functions

[D] New Volume D:\ Whisper classes

Item Test.java Test.java

```
1 import java.util.*;
2
3 class Test
4 {
5 public static void main(String[] args)
6 {
7 ArrayList<String> al1 = new ArrayList();
8 al1.add("sachin");
9
10 ArrayList<String> al2 = new ArrayList<>();
11 al2.add("dhoni");
12 al2.add(10);
13
14 ArrayList<String> al3 = new ArrayList<String>();
15 al3.add("yuvi");
16
17
18
19
20
21
22
23
24
25
26
27
```

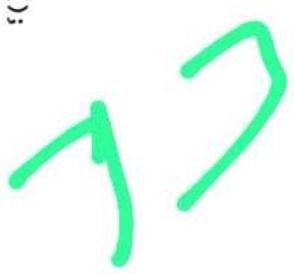
Java (\*.java) Test.java

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Q. Search

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Command Prompt

```
D:\Wrapper\classes>javac Test.java
Note: Test.java uses unchecked or unsafe operations.
Note: Recompile with -Xlint:unchecked for details.

D:\Wrapper\classes>java Test
Exception in thread "main" java.lang.ClassCastException: java.lang.StringBuffer cannot be cast to java.lang.Comparable
 at java.util.TreeMap.put(TreeMap.java:58)
 at java.util.TreeMap.add(TreeMap.java:255)
 at Test.main(Test.java:19)

D:\Wrapper\classes>javap -c Java.lang.String
Compiled from "String.java"
public final class java.lang.String implements java.io.Serializable, java.lang.Comparable<java.lang.String>, java.lang.CharSequence {
 public static final Java.util.Comparator<java.lang.String> CASE_INSENSITIVE_ORDER;
 public java.lang.String();
 public java.lang.String(java.lang.String);
 public java.lang.String(char[]);
 public java.lang.String(int[], int, int);
 public java.lang.String(byte[], int, int, int);
 public java.lang.String(byte[], int, int, int, java.lang.String) throws java.io.UnsupportedEncodingException;
 public java.lang.String(byte[], int, int, int, java.nio.charset.Charset);
 public java.lang.String(byte[], java.lang.String) throws java.io.UnsupportedEncodingException;
 public java.lang.String(byte[], java.nio.charset.Charset);
 public java.lang.String(byte[], int, int);
 public java.lang.String(byte[], int, int, int, java.lang.String) throws java.io.UnsupportedEncodingException;
 public java.lang.String(StringBuilder);
 public java.lang.String(StringBuilder, boolean);
 public int length();
 public boolean isEmpty();
 public char charAt(int);
 public int codePointAt(int);
 public int codePointBefore(int);
 public int codePointCount(int, int);
 public int offsetByCodePoints(int, int);
 void getChars(char[], int);
 public void getChars(int, int, char[], int);
```

Nitin Manjrekar





20-12-2022\snippets\session\_4notes - Notepad  
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Question 15:

What will be the result of compiling and executing Test class?

```
public static void main(String[] args) {
 try {
 main(args); //inifit-call to the same main()====> StackOverflowError(Child of Error)
 } catch (Exception ex) {
 System.out.println("CATCH-");
 }
 System.out.println("OUT");
}
A. CATCH-OUT
B. OUT
C. None of the System.out.println() will be executed
D. CompilationError.
```

Answer: C

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```
*20-12-2022_snippet_session_notes - Notepad
File Edit View
public class Test {
 public static void main(String[] args) {
 StringBuilder sb = new StringBuilder()//capacity = 16
 try{
 for(;;){
 sb.append("iNeuron");//memory in heap area is finite(OutOfMemoryError)==> Error class
 }
 } catch(Exception e){
 System.out.println("Exception!!!");
 }
 System.out.println("Main ends!!!");
 }
}

What will be the result of compiling and executing Test class?
A. "Main ends!!!" printed on the console and program terminates successfully.
B. "Exception!!!" and "Main ends!!!" printed on the console and program terminates successfully.
C. "Exception!!!" is printed on the console and program terminates successfully.
D. "Exception!!!" is printed on the console and program terminates abnormally.
E. Program terminates abruptly.
```

Answer: E

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Directory Object Functions

[D] New Volume

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Writting classes

ItemTest.java

Test.java

1 import java.util.\*;

2

3 class Test

4 {

5 public static void main(String[] args)

6 {

7 //Sorting of objects will happen based on default natural sorting order

8 TreeSet ts = new TreeSet();

9 ts.add("A");

10 ts.add("Z");

11 ts.add("L");

12 ts.add("B");

13 ts.add(null); //NullPointerException

14 ts.add(10); //ClassCastException

15

16 System.out.println(ts); // [A,B,L,Z]

17

18 }

19

20 }

21

22

Java (\*.java)

Test.java

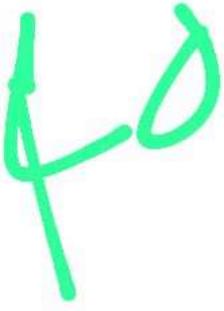
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Q. Search

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20-12-2022 snippets/session\_2022 - Notepad

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```
import java.io.FileNotFoundException;
public class Test {
 public static void main(String[] args) {
 try {
 System.out.println(1); //Exception is not generated
 } catch (NullPointerException ex) {
 System.out.println("ONE");
 } catch (FileNotFoundException ex) //Fully Checked Exception
 {
 System.out.println("TWO");
 }
 System.out.println("THREE");
 }
}
```

Nitin Marajpath

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A. ONE  
B. TWO  
C. THREE  
D. None of the System.out.println() be executed  
E. CompilationError

Answer:E

Ln 63 Col 1 99% Windows (CEP) UTF-8 ENG IN 20-12-2022 22:32 20°C Mostly cloudy

20-12-2022\snippets\session\_notes - Notepad  
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Answer:E

Question 18:

Consider codes of 3 java files:

```
//Class1.java
import java.io.FileNotFoundException;
public class Class1 {
 public void read() throws FileNotFoundException {}//valid
}

//Class2.java
public class Class2 { //invalid
 String Class2;//invalid
 public void Class2() {}//it is a normal method
}

//Class3.java
public class Class3 { //invalid
 private void print() {
 private String msg = "HELLO"; //inside a method only modifier permitted is "final"
 System.out.println(msg);
 }
}
```

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```
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//Class2.java
public class Class2 {
 String Class2;//invalid
 public void Class0 {}//it is a normal method
}

//Class3.java
public class Class3 {
 private void print() {
 private String msg = "HELLO";//inside a method only modifier permitted is "final"
 System.out.println(msg);
 }
}
```

Which of the following statement is true?

- A. Only Class1.java compiles successfully
- B. Only Class2.java compiles successfully
- C. Only Class3.java compiles successfully
- D. Class1.java and Class2.java compiles successfully
- E. Class1.java and Class3.java compiles successfully
- F. Class2.java and Class3.java compiles successfully

Answer: D

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**D. NOT THROWING ANY EXCEPTION**

Question 20:

Consider below code:

```
public class Test {
 static {
 System.out.println(1/0);
 }

 public static void main(String[] args) {
 System.out.println("HELLO");
 }
}
```

On execution, does Test class print "HELLO" on to the console?

- A. HELLO is printed on the console
- B. NO Hello is not printed on the console

Answer: `java.lang.ExceptionInInitializerError`



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Q> What will be the result of compiling and executing Test class?

```
public class Test {
 public static void main(String[] args) {
 m1(); //Line 3
 }

 private static void m1() throws Exception { //Line 6
 System.out.println("NOT THROWING ANY EXCEPTION"); //Line 7
 }
}
```

A. CompilationError at Line 3  
B. CompilationError at Line 7  
C. CompilationError at Line 6  
D. NOT THROWING ANY EXCEPTION

throws====> compiler check for handling code

a. throws  
b. try and catch

SO



Nitin Manjrekar

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