Neova Interview Technical Test

1. What is the output of this program ?

```java
public class Emp{
  public String empName;
  public int age;
  public Emp(String_empName, int _age){
    this.empName =_empName;
    this.age=_age;
  }
 public void printEmp() {
 System.out.println("Emp Name= "+empName+"\n"+ "Emp Age");
}}


public class Demo03 {
  public static void main(String[] args){
    new Emp("John",30).printEmp();
  }}
```

    A) Exception
    B) Error
    C) Emp Nmae = John
       Emp Age = 30
    D) None of these

2. What is the output of this program ?

```java
public class Demo02{
    public  static void Test(Object o){
       System.out.println("Object");
    }
    public  static void Test(String str){
       System.out.println("String");
    }
    public  static void Test(Integer i){
       System.out.println("Integer");
    }
    public  static void main(String[] args){
       Test(null);
    }}
```

    A) Object
    B) String
    C) Integer
    D) None of these (Ambiguity created)

3. What is the output of this program ?

```java
 public class Demo{
  public  static void main(String[] args){
        String str1 = "test";
        String str2 = new String("test");
        if (str1==str2)
          System.out.println("Equal");
        else
          System.out.println("Not Equal");
```

}}

    A) Equal
    B) Not Equal

4. What is the output of this program ?

```java
public class Emp{
  public String empName;
  public int age;
  public EMp(String_empName, int _age){
    this.empName =_empName;
    this.age=_age;
  }
 protected void printEmp() {
 System.out.println("Emp Name= "+empName+"\n"+ "Emp Age");
}
}
public class Demo03 {
  public static void main(String[] args){
    new Emp("John",30).printEmp();
  }}
```

    A) Exception
    B) Error ()
    C) Emp Nmae = John
       Emp Age = 30
    D) None of these

5. What is the output of this program ?

```java
final class A{
    protected int a = 10;
}
final class B extends A {
    public void print (){
       System.out.println(a);
    }
}
```

    A) 10
    B) Exception
    C) Error   (cant extends Final class)
    D) Non of these

6. What is the output of this program ?

```java
public class Test {
    private static String str = "Test";
    public void print(){
            System.out.println(str);
    }
    public static void main(String[] args){
            print();
    }
}
```

A) Error (print() is n0t static)
B) Test
C) Non of these

7. **What is the output of this program ?**

```java
public  static void main(String[] args){
        String str1 = "test";
        String str2 = new String(str1);
        if (str1==str2)
           System.out.println("Equal");
        else
           System.out.println("Not Equal");
}}
```

A) Equal
B) Not Equal (Ref are different)

8. **What is the output of this program ?**

```java
    public class Demo02{
        public  static void Test(Object o){
           System.out.println("Object");
        }
        public  static void Test(String str){
           System.out.println("String");
        }
        public  static void main(String[] args){
                Test(null);
    }  }
```

A) Object
B) String
C) Excetion
D) None of these

9. **What is the output of this program ?**

```java
    public class Demo02{
        public  static void Test(String o){
           System.out.println("String");
        }
        public  static void Test(Integer i){
           System.out.println("Integer");
        }
        public  static void main(String[] args){
                Test(null);
    }  }
```

A) Intger
B) String
C) None of these (Error Ambiguous between Integer & String)

10. **Which of the method waits for thread to die ?**
   A) Stop()
   B) Start()
   C) Terminate()
   D) Join()

11. **What is the output of this program ?**

```java
class exception_handling{
  public static void main(String args[]){
    try{
            int a = args.length;
            int b = 10/a;
            System.out.println(a);
            try{
                    if(a==1)
                      {
                        a=a/a-a;
                      }
                    if(a==2)
                      {
                          int c = {1}; //Error assigning array value
                          c[8]=9;
                      }
            } // Inner try not having catch() / Finally() block
      }
catch(ArrayIndexOutOfBoundException e){
        System.out.println("TypeA");
  }
catch(ArithmaticException e){
    System.out.println("TypeB");
  }
} }
```

A) TypeA
B) TypeB
C) Compile time Error
D) Run Time Error

12. **What is the output of this program ?**

```java
class Output{
 public static void main(String[] args) {
        TreeSet<E> t = new TreeSet();
        t.add("3");
        t.add("9");
        t.add("1");
        t.add("4");
        t.add("8");

        System.out.println(t);
        }
    }
```

A) [1,3,5,8,9]
B) [3,4,1,8,9]
C) [9,8,4,3,1]
D) [1,3,4,8,9]// TressSet have own sorting Ordr NSO

13. **What are the valid statement about constructor and synchronization in java ?**

   A) We can enclose constructor in try-catch block
   B) We can use synchronized code in constructor
   C) Constructor can be synchronized
   D) None

14. **What is the value returned by *compareTo*() method if the invoking string is less than the String compared ?**

A) Zero
B) **Negative**
C) Positive
D) None

> **Note** : obj1.*compareTo*(Object obj2)
> 1. Returns **–ve** if & only if obj1 has to come **before** obj2
> 2. Returns **+ve** if & only if obj1 has to come **after** obj2
> 3. Returns **0** if & only if obj1 & obj2 are **equal**

15. What is the output of this program ?

```
public class demo{
public static void main(String[] args) {
        String s = "Test Java";
        boolean b;
        b = s.startsWith("Test");
        System.out.println(b);
 }
}
```

A) True
B) False
C) Compile time error
D) Runtime error

16. File Reader and File Writer are –

A) Byte Stream
B) Character Stream
C) Both
D) None

17. FileInputStream is used to –

A) Read data from Source
B) Writer data from Source
C) Both
D) None

18. *file.createNewFile()* method returns –

A) File Object
B) True or False
C) None

19. File file=new File(“E:\\test.txt”);
    Find the incorrect method

A) canRead()
B) canExecute()
C) read() ← no such method in file class
D) getUsableSpace()

20. Which of the following method is used to achieve append mode in file

```
BufferedWriter out = null;
 try{
out=new BufferWriter(new FileWriter("filename"));

out.write("aString");
 }
 catch(IOException e){
 // error processing code
 }
 finally{
  if(out!=null){
    out.close();
  }
}
```

A) Out=new BufferedWriter(new FileWriter(“filename”,append));
B) Out=new BufferedWriter(new FileWriter(“filename”,true));
C) Out=new BufferedWriter(new FileWriter(“filename”,’a’));
D) Out=new BufferedWriter(new FileWriter(“filename”,’a+’));

21. What is the output of this program ?

```
FileWriter writer=new FileWriter(new File(“E:\\demo.text”));
writer.write(null);
```

A) Run Time Exception
B) Compile time error
C) No Exception
D) None
Note – write(char[]) ← right syntax

22. What is the output of this program ?

```
String data = “Programming”;
FileWriter writer = new FileWriter(new File(E:\\ Demo.txt));
writer.write(“Java”.concat(data));
```

A) Java Programming
B) Compile Time Exception
C) Run time Exception
D) None

23. JVM is a

A) Platform independent
B) Platform dependent
C) None

24. Which operator is used by java runtime implementation to free the memory of an object when it is no longer needed

A) Delete
B) Free
C) New
D) None

25. Which of these operator is used to generate an instance of an exception that can be thrown by using throw ?

A) **New**
B) Malloc
C) Alloc
D) thrown

26. What is the output of this program ?

```
public class demo {
public static void main(String[] args)throws IOException{
        try{
                int a = 10;
                int b = 0;
                itn res = a/b;
        }catch(ArithmaticException e){
                System.err.println("Catch 2");
                System.exit(0);
        }
        finally{
                System.out.println("finally");
        }
}}
```

A) Catch 1
B) Catch 2
C) Catch1,Finally
D) None

27. Which of these keywords is used by calling function to guard against the exception that is thrown by called function ?

A) try
B) throw
C) **throws**
D) catch

28. What is the output of this program ?

```
class exception_handling{
        public static void main(String[] args){
                try{
                        System.out.println("A");
                        throw new
NullPointerException("Hello");
                }
                catch(ArithmaticException e){
                        System.out.println("B");
                }
        }
}
```

A) A
B) B
C) Hello
D) RunTime Exception
E) Compile Time Exception

F) **None** (it gives compile time error "Exception never thrown from try block")

29. What is the output of this program ?

```
public class Demo{
public static void main(String[] args)throws IOException{
        try{
                System.out.println("Java");
        }
        finally{
                System.out.println("Programming");
        }
}}
```

A) The program will not compile because no exception are specified
B) The program will not compile because no catch clauses are specified
C) **None** (code will prints Java Programming)

Programs

1. **Write a code to find Duplicates String**
2. **Write a program to remove duplicates from a sorted array**
3. **Write a code Check given number / string is palindrome or not**
4. **Write a program to count total number of occurrence of given character in a string**