Exception Handling in Java

1.Try and catch:

```
java -cp /tmp/kPpgAzk0Zy Main
ArithmeticException not divisible/ by zero
   lass Main {
public static void main(String[] args) {
     try {
  int divide_zero = 5 / 0;
  System.out.println("Divisible");
}
```

2.Finally:

```
class Main [{
  public static void main(String[] args) {
                                                                                              Arithmetic not divisibleException in thread "main" java.lang.ArithmeticException: /
    try {
    int divideByZero = 1 / 0;
}
                                                                                                  by zero
at Main.main(Main.java:4)
    finally {
    System.out.println("Arithmetic not divisible");
}
}
```

3.Throw:

```
3
4 public class Throw1 {
5 public static void validate(int age) {
6 fit(age-18) {
7 throw new ArithmeticException("Person is not eligible to vote");
8 }
9 else {
```

4. Nested Try:

```
class ListOfNumbers {
  public int[] arr = new int[10];
  public void writeList() {
                                                                                                                                                                         java -cp /tmp/vZGiNbiq7L Main
IndexException:Index 10 out of bounds for length 10
        try {
arr[10] - 9;
}
class Main(
public static void main(String[] args) {
    ListOTNumbers list = new ListOTNumbers();
    list.writeList();
    }
}
```

5.Used-Defined:

```
class SampleException{
public static void main(String args[]){
try{
throw new Exp(105);
}
                                                                                                                                                        java -cp /tmp/vZGiNbiq7L SampleException
Status code = 105
 catch(Exp e){
 System.out.println(e);
 class Exp extends Exception{
 class Exp extends Exception{
int num1;
Exp(int num2) {
   num1=num2;
   }
public String toString(){
   return ("Status code = "+num1);
```

Hence the code is executed successfully.