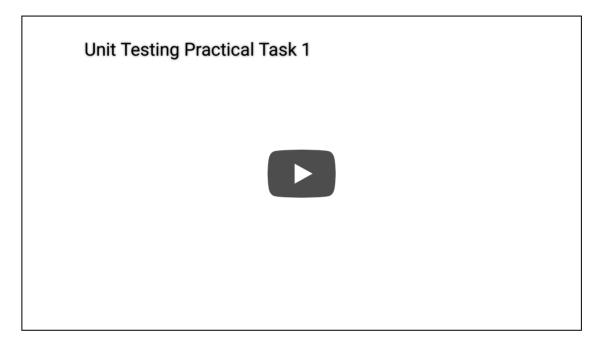# Practical Testing

Instructions : **Practical Improving existing code and Unit Testing (mp3)**
(https://canvas.qub.ac.uk/courses/11041/files/1582028/download?wrap=1) ⤓
(https://canvas.qub.ac.uk/courses/11041/files/1582028/download?download_frd=1)

Code to download and add to etc... **mp3.java**
(https://canvas.qub.ac.uk/courses/11041/files/1582027/download?wrap=1) ⤓
(https://canvas.qub.ac.uk/courses/11041/files/1582027/download?download_frd=1)

Video solutions....

Unit Testing Practical Task 1

▶

Note in these videos I am using **JUnit 4** so some small changes to update to **Junit 5(Jupiter)** , specifically

1. @BeforeEach rather than **@Before** in the **setUp** method with the Test class.

2. Exception handling is no longer :

@Test (Expected = Exception.class) - JUNIT 4

The **assertThrows** statement takes care of that one (and means you can combine Exception based test cases.. which is very efficient and worthwhile in Junit 5).

```
void testInvalidRating() {

    // test for low invalid value
    assertThrows(IllegalArgumentException.class, () -> {
```

```
        mp3.setRating(ratingInvalidLower);
    });
```

```
        // test for high invalid value
    assertThrows(IllegalArgumentException.class, () -> {
    mp3.setRating(ratingInvalidHigher);
    });

}
```

Unit Testing Practical Task 2