# Homework: Test Levels and Test Types

## Unit Testing in the Real Life: Testing a Battery

|  |  |
| --- | --- |
| **Test #1** | Check the batteries size standard. |
| **Test #2** | Check the labels on the battery if they are accurate. |
| **Test #3** | Check the physical condition of the battery if there are damages. |
| **Test #4** | Put the batteries into a flashlight and check if they work. |
| **Test #5** | If everything is correct, but the flashlight is not working check the battery voltageusing a digital multimeter. |

## Unit Testing in the Real Life: Testing a Light Bulb

|  |  |
| --- | --- |
| **Test #1** | Check the bulb size standard. |
| **Test #2** | Check the labels on the bulb if they are accurate. |
| **Test #3** | Check the physical condition of the bulb if it is damaged. |
| **Test #4** | Put the bulb in the socket and check if they work. |
| **Test #5** | If the bulb is not working check if the switch is On. |
| **Test #6** | If the bulb is not working again check if there is an electricity in the room. |
| **Test #7** | If everything is correct, but the bulb is not working check the voltageusing a digital multimeter. |
| **Test #8** |  |
| **Test #9** |  |
| **Test #10** |  |

## Unit Testing in the Software World: Age Checker

|  |  |
| --- | --- |
| **Test #1** | AgeChecker(0) => ‘*child*’ |
| **Test #2** | AgeChecker(5) => ‘*child*’ |
| **Test #3** | AgeChecker(10) => ‘*child*’ |
| **Test #4** | AgeChecker(12.5) => ‘*child*’ |
| **Test #5** | AgeChecker(12.9) => ‘*teenager* |
| **Test #6** | AgeChecker(13) => ‘*teenager* |
| **Test #7** | AgeChecker(15) => ‘*teenager* |
| **Test #8** | AgeChecker(19.5) => ‘*teenager* |
| **Test #9** | AgeChecker(19.9) => ‘*teenager* |
| **Test #10** | AgeChecker(20) => ‘*adult*’ |
| **Test #11** | AgeChecker(40) => ‘*adult*’ |
| **Test #12** | AgeChecker(64.9) => ‘*adult*’ |
| **Test #13** | AgeChecker(65) => ‘*elder*’ |
| **Test #14** | AgeChecker(75) => ‘*elder*’ |
| **Test #15** | AgeChecker(100) => ‘*elder*’ |
| **Test #16** | AgeChecker(150) => ‘*elder*’ |
| **Test #17** | AgeChecker(151) => ‘*error’* |
| **Test #18** | AgeChecker(-5) => ‘*error’* |

## Unit Testing in the Software World: Income Checker

|  |  |
| --- | --- |
| **Test #1** | IncomeChecker(0) -> ‘*low’* |
| **Test #2** | IncomeChecker(10) -> ‘*low’* |
| **Test #3** | IncomeChecker(200) -> ‘*low’* |
| **Test #4** | IncomeChecker(999.99) -> ‘*low’* |
| **Test #5** | IncomeChecker(999.99) -> ‘*low’* |
| **Test #6** | IncomeChecker(1000) -> ‘mid*’* |
| **Test #7** | IncomeChecker(2500) -> ‘mid*’* |
| **Test #8** | IncomeChecker(2999.99) -> ‘mid*’* |
| **Test #9** | IncomeChecker(3000) -> ‘high*’* |
| **Test #10** | IncomeChecker(7500) -> ‘high*’* |
| **Test #11** | IncomeChecker(-100) -> ‘error*’* |

## Integration Testing in the Real Life: Lighting the Bulb

|  |  |
| --- | --- |
| **Test #1** |  |
| **Test #2** |  |
| **Test #3** |  |
| **Test #4** |  |
| **Test #5** |  |

## \* Integration Testing in the Software World: Ads

|  |  |
| --- | --- |
| **Test #1** |  |
| **Test #2** |  |
| **Test #3** |  |
| **Test #4** |  |
| **Test #5** |  |
| **Test #6** |  |
| **Test #7** |  |
| **Test #8** |  |

## \* Integration Testing in the Software World: Credit Risk

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | child | teenager | adult | elder | negative |
| low |  |  |  |  |  |
| mid |  |  |  |  |  |
| high |  |  |  |  |  |
| negative |  |  |  |  |  |

## System Testing in the Real Life: Flashlight

|  |  |
| --- | --- |
| **Test #1** |  |
| **Test #2** |  |
| **Test #3** |  |
| **Test #4** |  |
| **Test #5** |  |
| **Test #6** |  |
| **Test #7** |  |
| **Test #8** |  |
| **Test #9** |  |
| **Test #10** |  |

## System Testing in the Real Life: Digital Scale

|  |  |
| --- | --- |
| **Test #1** |  |
| **Test #2** |  |
| **Test #3** |  |
| **Test #4** |  |
| **Test #5** |  |
| **Test #6** |  |
| **Test #7** |  |
| **Test #8** |  |

## System Testing in the Software World: Number Calculator

|  |  |
| --- | --- |
| **Test #1** |  |
| **Test #2** |  |
| **Test #3** |  |
| **Test #4** |  |
| **Test #5** |  |
| **Test #6** |  |
| **Test #7** |  |
| **Test #8** |  |

## Acceptance Testing in the Real Life: Flashlight

|  |  |
| --- | --- |
| **Test #1** |  |
| **Test #2** |  |
| **Test #3** |  |
| **Test #4** |  |
| **Test #5** |  |
| **Test #6** |  |

## Acceptance Testing in the Real Life: Digital Scale

|  |  |
| --- | --- |
| **Test #1** |  |
| **Test #2** |  |
| **Test #3** |  |
| **Test #4** |  |
| **Test #5** |  |
| **Test #6** |  |

## Acceptance Testing in the Software World: Number Calculator

|  |  |
| --- | --- |
| **Test #1** |  |
| **Test #2** |  |
| **Test #3** |  |

## Functional and Non-Functional Tests: Flashlight

|  |  |
| --- | --- |
| **Functional Tests** | **Non-Functional Tests** |
|  |  |
|  |  |
|  |  |
|  |  |