|  |  |  |
| --- | --- | --- |
| **Testing** | **Input** | **Output** |
| **ExpandIsolation** | **7** | **Sets the value of totalIsolationCages** |
| **ExpandIsolation** | **-3** | **IllegalArgumentException** |
| **ExpandEnclosure** | **12** | **Sets the value of totalEnclosures** |
| **ExpandEnclosure** | **-4** | **IllegalArgumentException** |
| **isFull** | **Add monkeys till no space is left** | **True** |
| **isFull** | **When space is left in either enclosure or isolation** | **False** |
| **getMonkeyAlphabet** |  | **MonkeyId list of all monkeys** |
| **getMonkeyAlphabet** | **When no monkey is added** | **null** |
| **getSpeciesAlphabetical** | **species** | **Hashmap of all species and its location** |
| **findSpeciesHousing** | **Valid species** | **Enclosure id or isolation id based on species location** |
| **findSpeciesHousing** | **Species does not exist in isolation or enclosure** | **0** |
| **updateIsolation** | **Monkey added and space is there in isolation** | **Decrement the spaceInEnclosure by 1** |
| **updateIsolation** | **Monkey added and space is not there in isolation** | **IllegalArgumentException** |
| **updateEnclosure** | **Monkey added and space is there in enclosure** | **MonkeyId list of all monkeys** |
| **updateEnclosure** | **Monkey added and space is not there in enclosure** | **IllegalArgumentException** |
| **settotalIsolationCages** | **-4** | **IllegalArgumentException** |
| **setTotalEnclosures** | **-3** | **IllegalArgumentException** |
| **setMedicalStat** | **6** | **IllegalArgumentException** |
| **setMedicalStat** | **True** | **True** |
| **setFavFood** | **cabbage** | **IllegalArgumentException** |
| **setAge** | **-3** | **IllegalArgumentException** |
| **setAge** | **Varshi** | **IllegalArgumentException** |
| **SetAge** | **7** | **Sets age as 7** |
| **SetSex** | **premature** | **IllegalArgumentException** |
| **SetSize** | **30** | **IllegalArgumentException** |
| **SetSpecies** | **55** | **IllegalArgumentException** |
| **reconstruct** | **New species- drill** | **Sets the new species for that enclosure** |
| **reconstruct** | **New species – not existing in enum** | **IllegalArgumentException** |
| **getShoppingList** | **Monkey List** | **Total quantity of food needed** |
| **findCapacity** | **5/1** | **SizeOfEnclosure/monkeySize = 5** |
| **findCapacity** | **5/12** | **0** |
| **findCapacity** | **0/10** | **null** |

1. Setting the housing I and j.