

## 1. Creating whale object with default constructor:

Test data:

```
speciesOfWhale = "Unknown";  
locationSeen = "Unknown";  
directionOfTravel = "Unknown";  
isAdult = false;  
isCalf = false;  
isInjured = false;
```

Expected result:

```
speciesOfWhale = "Unknown";  
locationSeen = "Unknown";  
directionOfTravel = "Unknown";  
isAdult = false;  
isCalf = false;  
isInjured = false;
```

Actual result:

```
Test method 1 uses default constructor  
The direction of travel is: Unknown  
Is there a calf: false  
Is the calf injured: false  
Is the whale injured: false  
The whale was spotted in: Unknown  
The species of the whale is: Unknown
```

## 2. Creating whale object with non default constructor:

### a) Valid inputs:

Test data:

```
speciesOfWhale = "Blue Whale";  
locationSeen = "Jarvis Bay";  
directionOfTravel = "South";  
isAdult = true;  
isCalf = false;  
isInjured = false;
```

Expected result:

```
speciesOfWhale = "Blue Whale";  
locationSeen = "Jarvis Bay";  
directionOfTravel = "South";  
isAdult = true;  
isCalf = false;  
isInjured = false;
```

### b) Invalid inputs:

Test data:

```
speciesOfWhale = "Blue Whale";  
locationSeen = "Jarvis Bay";  
directionOfTravel = "South";  
isAdult = true;  
isCalf = false;  
isInjured = false;
```

Expected result:

```
speciesOfWhale = "Orcas";  
locationSeen = "Eden";  
directionOfTravel = "North";  
isAdult = false;  
isCalf = true;  
isInjured = true;
```

Actual result:

```
Test method 2 uses non default constructor and accessor methods  
The direction of travel is: South  
Is there a calf: false  
Is the calf injured: false  
Is the whale injured: true  
The whale was spotted in: Jarvis Bay  
The species of the whale is: Minke
```

3. Testing all accessor methods:

```
getDirectionOfTravel()  
getIsAdult()  
getIsCalf()  
getIsInjured()  
getLocationSeen()  
getSpeciesOfWhale()  
getWhaleGender()
```

4. Testing all mutator methods with valid and invalid inputs:

```
setDirectionOfTravel()  
setIsAdult()  
setIsCalf()  
setIsInjured()  
setLocationSeen()  
setSpeciesOfWhale()  
setWhaleGender()
```

```
Test method 3 uses non default constructor and mutator methods  
The direction of travel is: West  
Is there a calf: false  
Is the calf injured: true  
Is the whale injured: false  
The whale was spotted in: XYZ  
The species of the whale is: White Shark
```