**All Transition Test Cases:**

**T1:**

private ECL eCL= { Person1, Person2, Person3};

**private long personCount= 0;**

private long globalTime= o.oooL;

private OStatus status= inactive;

**private SmartPerson person= person1;**

private long singletime= 30000L;

**States Traversed:** InActive, Active (Search, Wait), Fulfilled

**Oracle: status = fulfilled**

**T2:**

private ECL eCL= { Person1, Person2, Person3};

private long personCount= 1;

private long globalTime= 120000L;

private OStatus status= inactive;

private SmartPerson person= person2;

private long singletime= 90000L;

**Oracle: status = Active**

**States Traversed:** InActive, Active (Search, Wait), Violated, Active

**T3:**

private ECL eCL= { Person1, Person2, Person3};

private long personCount= 3;

private long globalTime= 240000L;

private OStatus status= inactive;

private SmartPerson person= person3;

private long singletime= 90000L;

**Oracle: status = fulfilled**

**States Traversed:** InActive, Active (Search, Wait), Violated, Fulfilled

**Mutants for O1:**

One time with normal Code

T1: M1: singleTime: 120000L

T1: M2: singleTime : 30000L

T1: M3: singleTime: -60000L

T1: M4: singleTime: 180000L

T1: M5: globalTime: 120000L

T1: M6: globalTime: 300000L

T1: M7: globalTime: --120000L

T1: M8: globalTime: 60000L

T1: M9: globalTime: 120000L

T1: M10: personCount: 3, singleTime=90000L, globalTime: 120000L