CPTS 464 – Project 2
Pictures of Executables running.
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Operator – Subscriber running.
You can see both types of published content, Position and Accident, the proper Route name, bus name, traffic conditions(if applicable. I.e position), stop number, number of stops, time between stops, fill in ratio and finally a timestamp.

```
Position        Express2        Bus21   light   3       6       3       48      11.00.30
Position        Express2        Bus22   normal  3       6       3       34      11.00.30
Accident        Express1        Bus13           1                               11.00.30
Position        Express1        Bus13   normal  1       4       12      74      11.00.30
Accident        Express1        Bus12           1                               11.00.30
Position        Express1        Bus12   heavy   1       4       11      10      11.00.30
Position        Express1        Bus11   normal  1       4       2       58      11.00.31
Position        Express2        Bus23   normal  5       6       3       75      11.00.32
Position        Express2        Bus22   normal  4       6       3       41      11.00.33
Position        Express2        Bus21   normal  4       6       3       99      11.00.33
Accident        Express1        Bus11           2                               11.00.33
Position        Express1        Bus11   normal  2       4       12      95      11.00.33
Position        Express2        Bus23   normal  6       6       3       79      11.00.35
Position        Express2        Bus22   light   5       6       3       7       11.00.36
Position        Express2        Bus21   normal  5       6       3       22      11.00.36
```

Passenger 1, 2 – Subscriber

The passenger Subscribers (1 and 2) Display messages from the route they are subscribed to, as well as the stop they are subscribed to. Once a bus reaches their stop, they get on the bus and sub to only that bus. Once the bus reaches their “Target” stop, they get off and the executable terminates with a timestamp.

```
I am passenger 1. I am waiting for the bus...
from route Express1 That im subbed to.
        Position        Route Express1  Bus Bus12       Traffic normal  Stop#: 1        #Stops 4
from route Express1 That im subbed to.
Accident        Express1        Bus13   1       11.01.16
from route Express1 That im subbed to.
        Position        Route Express1  Bus Bus13       Traffic normal  Stop#: 1        #Stops 4
from route Express1 That im subbed to.
        Position        Route Express1  Bus Bus11       Traffic normal  Stop#: 2        #Stops 4
from route Express1 That im subbed to.
        Position        Route Express1  Bus Bus12       Traffic heavy   Stop#: 2        #Stops 4
from route Express1 That im subbed to.
        Position        Route Express1  Bus Bus12       Traffic normal  Stop#: 3        #Stops 4
from route Express1 That im subbed to.
        Position        Route Express1  Bus Bus11       Traffic normal  Stop#: 3        #Stops 4
Bus Bus12 is at my stop!: 4
Getting on the bus.
        Position        Express1        Bus12   normal  4       4       2       52      11.01.21
stop is: 4
my target is 3
stop is: 4
my target is 3
stop is: 4
my target is 3
stop is: 3
my target is 3
Arrived at my destination, via bus Bus23 at 11.01.23
```

```
I am passenger 2. I am waiting for the bus...
from route Express2 That im subbed to.
        Position        Route Express2  Bus Bus21       Traffic heavy   Stop#: 2        #Stops 6
from route Express2 That im subbed to.
        Position        Route Express2  Bus Bus23       Traffic light   Stop#: 2        #Stops 6
from route Express2 That im subbed to.
        Position        Route Express2  Bus Bus22       Traffic heavy   Stop#: 2        #Stops 6
Bus Bus21  is at my stop!: 3
Getting on the bus.
        Position        Express2        Bus21   heavy   3       6       1       4       11.01.21
stop is: 3
my target is 2
stop is: 4
my target is 2
stop is: 4
my target is 2
Bus Bus21  Ariving at stop 4. Time: 11.01.22. Stops left: 0
stop is: 4
my target is 2
stop is: 4
my target is 2
stop is: 3
my target is 2
stop is: 1
my target is 2
stop is: 1
my target is 2
stop is: 5
my target is 2
stop is: 2
my target is 2
Arrived at my destination, via bus Bus11 at 11.01.24
```

Publisher

The publisher is responsible for publishing all the information to the subscribers. This will add routes and buses, start a thread for each bus, and then begin execution of the simulation. It writes position instances, or accident instances, depending on which happens.