ERROR REPORT OF GROUP-2

CSP301: PRODUCT 2

SOCIAL NETWORK SIMULATOR

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PART A

🔵 AREAS TO CHECK UNDER

🔶 Checking whether the file parser is hard coded

(a) we changed the input file (moving certain text here and there to valid locations). The program still ran
b) But when we deleted a complete university block, any input greater than 200000 seconds created a problem in the sense that it didn't terminate.

🔶 Checking the functioning of the threads

We started giving input to the .bin file as the number of seconds of simulation.
a)The program did'nt stop when the input was given for one year or multiple of 525600, It didnt terminate for a long time (more than 3 mins) should not be the case.
b)Anything greater than 400000 seconds created an error in the sense that it did not terminate
c)The friend log that we were provided with didnt print the time the request was sent. So we were not able to comment upon whether the generatefriends threads is working properly (taking jumps according to the probability distribution function)

🔶 Checking whether the threads run parallel or not

a) We wanted to check whether the threads run parallel or whether they are sequential and actually communicate with timekeeper, but no sufficient infomortion was given (such as some log or something)

🔶 Checking whether there is IPC between timekeeper and generator

a) we could certainly say that they have not done IPC between generator and timekeeper since there was no seperate module (a sperate compiled file or .bin file for timekeeper). We could certainly say they have run the threads from the generator itself. They both needed to be seperate modules and seperate processes which is not the case here.

PART B

🔵 CHECKING GYANI

🔶 CHECKING PROCEDURE:

We made a small demo graph to check their Algorithms. The graph is as follows:

```
<edge source="f0" target="f1"/>
<edge source="f0" target="f2"/>
<edge source="f0" target="f3"/>
<edge source="f0" target="f4"/>
<edge source="f0" target="f5"/>
<edge source="f1" target="f2"/>
<edge source="f1" target="f3"/>
<edge source="f2" target="f3"/>
```

◆ RESULTS

1. When checked for clique, importance of any person , we saw same results for any node which is wrong.
2. Gyani does not recognizes queries about length of shortest path, and list of people on shortest path.
3. It does not recognizes shortest path on graph query and displays query 0 on console.

◆ OUTPUT

```
####################################
What you would like to know?
clique 0
Query:1
1
####################################
What you would like to know?
clique 2
Query:1
1
####################################
What you would like to know?
clique f0
Query:1
1
####################################
What you would like to know?
length of shortest path f0 f1
Query:0
####################################
What you would like to know?
importance f0
Query:5
13
####################################
What you would like to know?
importance f1
Query:5
13
####################################
What you would like to know?
shortest path on graph
```

Query:0
################################
What you would like to know?
people on shortest path f3 f4
Query:2
0 is 0 distance from 0.
################################