

COMP3150 ASSIGNMENT 2 REPORT



A.Mohammed

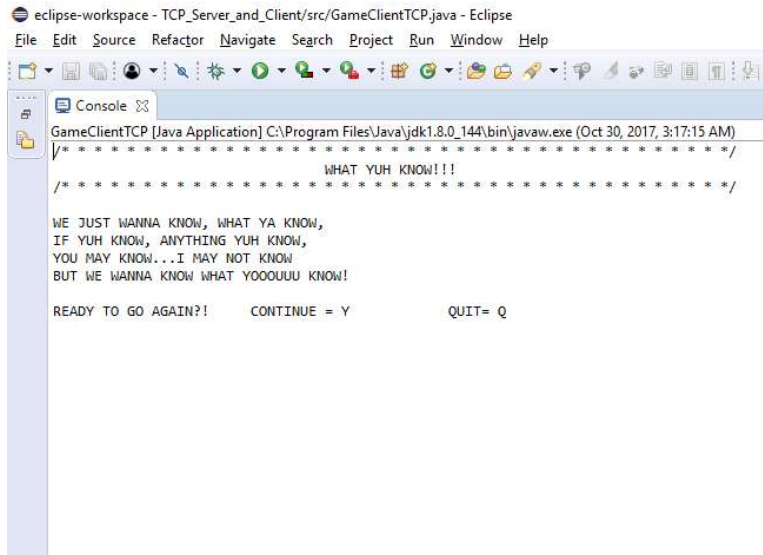
814000595

OCTOBER 31, 2017

Antonio L. Mohammed
814000595

INPUT & SCREENSHOTS of running program

Menu screen before “Y” is entered:



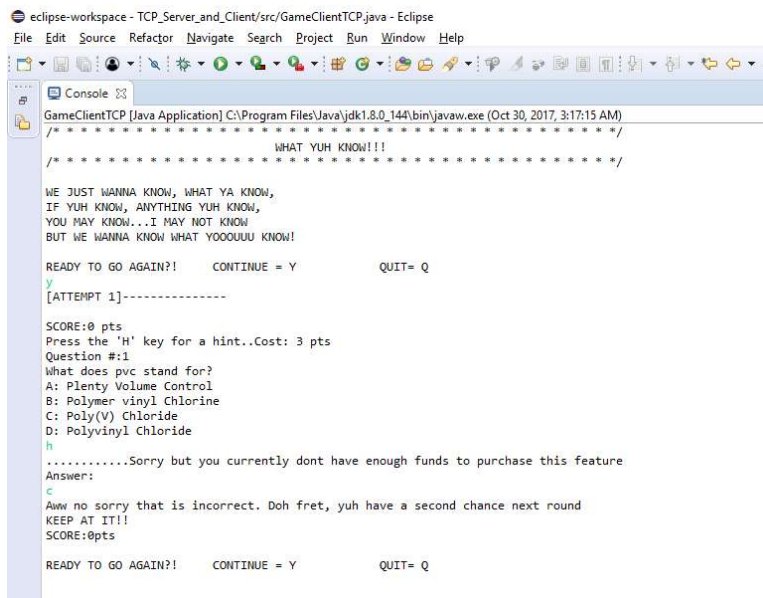
```
eclipse-workspace - TCP_Server_and_Client/src/GameClientTCP.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help

GameClientTCP [Java Application] C:\Program Files\Java\jdk1.8.0_144\bin\javaw.exe (Oct 30, 2017, 3:17:15 AM)
/* *****
   WHAT YUH KNOW!!!
   /* *****

WE JUST WANNA KNOW, WHAT YA KNOW,
IF YUH KNOW, ANYTHING YUH KNOW,
YOU MAY KNOW...I MAY NOT KNOW
BUT WE WANNA KNOW WHAT YOOUUU KNOW!

READY TO GO AGAIN?!    CONTINUE = Y    QUIT= Q
```

1st question loads up and attempt to use the hint while score is 0 then incorrect answer is given



```
eclipse-workspace - TCP_Server_and_Client/src/GameClientTCP.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help

GameClientTCP [Java Application] C:\Program Files\Java\jdk1.8.0_144\bin\javaw.exe (Oct 30, 2017, 3:17:15 AM)
/* *****
   WHAT YUH KNOW!!!
   /* *****

WE JUST WANNA KNOW, WHAT YA KNOW,
IF YUH KNOW, ANYTHING YUH KNOW,
YOU MAY KNOW...I MAY NOT KNOW
BUT WE WANNA KNOW WHAT YOOUUU KNOW!

READY TO GO AGAIN?!    CONTINUE = Y    QUIT= Q
y
[ATTEMPT 1]-----

SCORE:0 pts
Press the 'H' key for a hint..Cost: 3 pts
Question #:1
What does pvc stand for?
A: Plenty Volume Control
B: Polymer vinyl Chlorine
C: Poly(V) Chloride
D: Polyvinyl Chloride
h
.....Sorry but you currently dont have enough funds to purchase this feature
Answer:
c
Aww no sorry that is incorrect. Doh fret, yuh have a second chance next round
KEEP AT IT!!
SCORE:0pts

READY TO GO AGAIN?!    CONTINUE = Y    QUIT= Q
```

Antonio L. Mohammed
814000595

Selects "y" to continue question 2 is displayed and the correct answer is given

```
n
.....Sorry but you currently dont have enough funds to purchase this feature
Answer:
c
Aww no sorry that is incorrect. Doh fret, yuh have a second chance next round
KEEP AT IT!!
SCORE:0pts

READY TO GO AGAIN?!      CONTINUE = Y      QUIT= Q
y
[ATTEMPT 1]-----

SCORE:0 pts
Press the 'H' key for a hint..Cost: 3 pts
Question #:2
How much percent alcohol is there in pure H2O? (number only dont include % symbol)
0
CORRECT!!!!!!!!!!!!
WELLDONE KEEP AT IT!
SCORE:10 pts

READY TO GO AGAIN?!      CONTINUE = Y      QUIT= Q
<
```

If the player pushes enter with no typed response it lets them know there was no response detected and a successful purchase and display of the hint (extra feature) shown

```
READY TO GO AGAIN?!      CONTINUE = Y      QUIT= Q
y
[ATTEMPT 1]-----

SCORE:40 pts
Press the 'H' key for a hint..Cost: 3 pts
Question #:6
Which of the following is correct?
A: Protons and Neutrons are electrically charged
B: Protons and Electrons are electrically charged
C: Electrons and Neutrons are electrically charged
D: Neutrons, Electrons and Protons are electrically charged

Error: No Response was detected
Answer:
h
HINT PURCHASED...
HINT:So a quick joke: A neutron walks into a bar and orders a drink, he then asks the bartender, "How much do I owe ya." the bartender replies"For you..No Charge!"
Answer:
<
```

Antonio L. Mohammed
814000595

Hint cost is seen to have increased from 3 to 9 pts here, hence an exponential increase in the cost of hints the more they are used. And when players enter anything but “Y” or “Q” at intervals between questions

```
y
[ATTEMPT 1]-----
SCORE:37 pts
Press the 'H' key for a hint..Cost: 9 pts
Question #:7
Where is "Sauce Doubles" Located
s
Aw no sorry that is incorrect. Doh fret, yuh have a second chance next round
KEEP AT IT!!
SCORE:37pts

READY TO GO AGAIN?!    CONTINUE = Y    QUIT= Q
y
[ATTEMPT 1]-----
SCORE:37 pts
Press the 'H' key for a hint..Cost: 9 pts
Question #:8
Where is What is the pitch lake made out of?
Error: No Response was detected
Answer:
asphalt
CORRECT!!!!!!!!!!!!
WELLDONE KEEP AT IT!
SCORE:47 pts

READY TO GO AGAIN?!    CONTINUE = Y    QUIT= Q
nada
Error: INCORRECT INPUT
READY TO GO AGAIN?!    CONTINUE = Y    QUIT= Q
Error: INCORRECT INPUT
READY TO GO AGAIN?!    CONTINUE = Y    QUIT= Q
```

Attempt 2 questions are in order and points increasing by 5 with ever correct answer and cost of hints still increasing exponentially 3^x where x is the hint counter.

```
eclipse-workspace - TCP_Server_and_Client/src/GameClientTCP.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help

GameClientTCP [Java Application] C:\Program Files\Java\jdk1.8.0_144\bin\javaw.exe (Oct 30, 2017, 3:55:12 AM)

y
[ATTEMPT 2]-----
Ok since you got some wrong, were gonna ask those again at a 5 pts each
GOOD LUCK!

SCORE:47 pts
Press the 'H' key for a hint..Cost: 9 pts
Question #:1
What does pvc stand for?
A: Plenty Volume Control
B: Polymer vinyl Chlorine
C: Poly(V) Chloride
D: Polyvinyl Chloride
h
HINT PURCHASED...
HINT:PVC is a Polymer, has a smooth vinyl like feel and has a Chloride component
Answer:
d
CORRECT!!!!!!!!!!!!
WELLDONE KEEP AT IT!
SCORE:43 pts
READY TO GO AGAIN?!    CONTINUE = Y    QUIT= Q
y
[ATTEMPT 2]-----
Ok since you got some wrong, were gonna ask those again at a 5 pts each
GOOD LUCK!

SCORE:43 pts
Press the 'H' key for a hint..Cost: 27 pts
Question #:7
Where is "Sauce Doubles" Located
curepe
CORRECT!!!!!!!!!!!!
WELLDONE KEEP AT IT!
SCORE:48 pts
READY TO GO AGAIN?!    CONTINUE = Y    QUIT= Q
y
[ATTEMPT 2]-----
Ok since you got some wrong, were gonna ask those again at a 5 pts each
GOOD LUCK!

SCORE:48 pts
Press the 'H' key for a hint..Cost: 27 pts
Question #:8
Where is What is the pitch lake made out of?
```

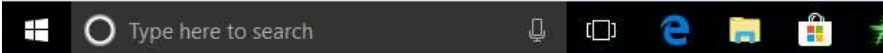
Antonio L. Mohammed
814000595

Game over after doing out all questions

```
y
[ATTEMPT 2]-----
Ok since you got some wrong, were gonna ask those again at a 5 pts each
GOOD LUCK!

SCORE:58 pts
Press the 'H' key for a hint..Cost: 27 pts
Question #:10
nWhere is Paria Waterfall located in Trinidad
blanchisseuse
CORRECT!!!!!!!!!!
WELLDONE KEEP AT IT!
SCORE:63 pts
HURRAY!! CONGRATULATIONS ON MAKING IT TO THE END

-----GAME OVER-----
SCORE:63
Thank you for playing...GOODBYE
```

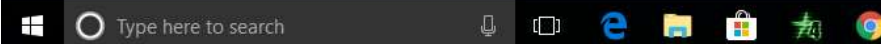


Player quits in mddle of the game

```
[ATTEMPT 1]-----
SCORE:10 pts
Press the 'H' key for a hint..Cost: 3 pts
Question #:4
What is the smallest unit of matter?
A: Element
B: Atom
C: Molecule
D: Electron
b
CORRECT!!!!!!!!!!
WELLDONE KEEP AT IT!
SCORE:20 pts

READY TO GO AGAIN?!    CONTINUE = Y    QUIT= Q
q
|

-----GAME OVER-----
SCORE:20
Thank you for playing...GOODBYE
```



CONCLUSION:

I Antonio Leonardo Mohammed hereby say that the work submitted is all my own and was done solely by me.

My program seemed to execute and function quite well from all the scenarios I could think of to test. Main difficulty was really getting the client to read more than one line at a time and getting it to ignore the regular readLine ending, the “\n” character. However I managed to fix this by using a loop to stop reading data from server upon reaching a “#” character.

The extra feature I had to method overload it cause I thought it was more functional to have one ExtraFeature(int count) and one ExtraFeature(int count, int points) which both return an integer cost amount with the only difference being the possibility of the latter returning a -1 denoting that the player would not be able to purchase the hint statement.

Along with the ExtraFeature function use a temporary queue to house the hints for the many questions.

What was quite useful and what I was quite happy I included was the catch exception for when the server could not send a message. This helped in debugging as I knew the message being sent to the client was lacking a “\n#” at the end of the message.

I think I completed 100% of the requirements and the program runs fairly smoothly