COMP 8005 ASSIGNMENT TWO TESTING DOCUMENT

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Test	Test Description	Expected Result	Pass/Fail	
1	Test to ensure that the server can run on multithread	Server can run properly without any errors	Pass	
	14:09:43(-)root@datacomm-20:8005a2v2\$ python3 multithread.py 192.168.0.20 7000 Listening on ('192.168.0.20', 7000)			
	Test to ensure that the client can connect to multithread	Client can connect to server after typing in correct arguments (see help manual)	Pass	
	14:09:43(-)root@datacomm-20:8005a2v2\$ python3 multithread.py 192.168.0.20 7000 Listening on ('192.168.0.20', 7000) echoing to ('192.168.0.18', 51758)			
	Test one file is sent with one request from client to server and back	File successfully sent from client to server and echoed back	Pass	
	File Edit View Search Terminal Tabs Help root@datacomm-18:~/Downloads/8005a × root@datacomm-18:~/Downloads/8005a × fl o,\' said the Duchess: `and the moral of that is"0h,\n\'tis love, \'tis love, that makes the world go round!"\'\n\n `Somebody said,\' Alice whispered, `that it\'s done by everybodysize of msg- 148362 totalsent- 147456 \nminding their own business!\'\n\n `Ah, well! It means much the same thing,\' said the Duchess,\ndigging her sharp little chin into Alice\'s shoulder as she added,\n'and the moral of THAT is"Take care of the sense, and the\nsounds will take care of themselves."\'\n\n `How fond she is of finding morals in things!\' Alice thought to\nherself.\n\n `I dare say you\'re wondering why I don\'t put my arm round your\nwaist,\' the Duchess said after a pause: `the reason is, th at I\'m\ndoubtful about the temper of your flamingo. Shall I try the\nexperimen t?\'\n\n `HE might bite,\' Alice cautiously replied, not feeling at all\nanxiou s to have the experiment tried.\n\n `Very true,\' said 'Thread-1: b'the Duchess: `flamingoes and mustard both\nbite. And the moral of that is"Birds of a fe ather flock\ntogether."\'\n\n `Only mustard isn\'t a bird,\' Alice remarked.\n\n `Right, as usual,\' said the Duchess: `what a clear way you\nhave of putting things!\'\n\n `It\'s a mineral, I THINK,\' said Alice.\n\n `Osize of msg- 148 362 totalsent- 148480 Client- 0 sent 148346 bytes, and made 1 requests			

Total requests sent: 1 Average time of getting response: 12.926816940307617 ms

root@datacomm-18:8005a2v2\$

362 totalsent 147456
\text{\te 4 Test more than 10 files with 10 clients is sent All files are sent from client to server **Pass** from multithreaded client to server and back and echoed back er\nday, I will tell you now the Dsize of msg- 148362 tot Client- 9 sent 1483460 bytes, and made 10 requests Created 10 clients Total requests sent: 100 Average time of getting response: 6.044423580169678 ms 4:12:04(-)root@datacomm-18:8005a2v2\$ Created 50 clients Total requests sent: 50 Average time of getting response: 5247.676482200623 ms .4:45:46(-)root@datacomm-18:8005a2v2\$ 5 Check connection for multithreaded for Maximum number of connections **Pass** should be around 1000 maximum connections 4:21:14(-)root@datacomm-18:8005a2v2\$ netstat -an | grep :7000 | grep ESTABLISHED | 1000 .4:21:16(-)root@datacomm-18:8005a2v2\$ Check server for total connections that was Server should display to user total **Pass** connected when server is killed connections that was connected during its life

```
echoing to ('192.168.0.18', 58884)
^CAccepted clients: 253 clients
^[[1;5ATotal data received: 76227976
```

```
Test Description
                                                                                                Pass/Fail
Test
                                                     Expected Result
      Test to ensure that the server can run on
                                                     Server can run properly without any
                                                                                                Pass
                                                     errors
      [root@localhost 8005a2v2]# python3 select1.py 127.0.0.1 7000
      Running report...
      Num active peers = 0
      Running report...
      Num active peers = 0
      Running report...
      Num active peers = 0
      Running report...
      Num active peers = 0
2
      Test to ensure that the client can connect to
                                                     Client can connect to server after typing
                                                                                                Pass
                                                     in correct arguments (see help manual)
      select server
          :05:03(-)root@datacomm-18:<mark>8005a2v2</mark>$ python3 client2.py 192.168.0.20 7000 10 10 ali
      Running report...
      Num active peers = 499
      closing ('192.168.0.18', 50724)
      Running report...
Num active peers = 498
      Running report...
      Num active peers = 498
      closing ('192.168.0.18', 50726)
      Running report...
      Num active peers = 497
      closing ('192.168.0.18', 50728)
      Running report...
      Num active peers = 496
      Running report...
      Num active peers = 496
      closing ('192.168.0.18', 50730)
      Running report...
      Num active peers = 495
      Test one file is sent with one request from
                                                     File successfully sent from client to server
3
                                                                                                Pass
      client to select server and back
                                                     and echoed back
```

```
The Mock Turtle sighed deeply, and began, in a voice sometimes choked with sobs, to sing this:--

'Beautiful Soup, so rich and green,
Waiting in a hot tureen!
Who for such dainties would not stoop?
Soup of the evening, beautiful Soup!
Soup of the evening, beautiful Soup!
Beau-ootiful Soo-oop!
Beau-ootiful Soo-oop!
Soo-oop of the e--e-vevening,
Beautiful, beautiful Soup!

'Beautiful Soup! Who cares for fish,
Game, or any other dish?
Who would not give all else for two p
ennyworth only of beautiful Soup?
Pennyworth only of beautiful Soup?
Pennyworth only of beautifsize of msg- 148362 totalsent- 124928
ul Soup?

Beau-ootiful Soo-oop!
Beau-ootiful Soo-oop!
Beau-ootiful Soo-oop!
Soo-oop of the e--e-evening,
Beautiful, beauti-FUL SOUP!

'Chorus again!' cried the Gryphon, and the Mock Turtle had
just begun to repeat it, when a cry of 'The trial's beginning!'
was heard in the distance.

'Come on!' cried the Gryphon, and, taking Alice by the hand,
it hurried off, without waiting for the end of the song.

'What trial is it?' Alice panted as she ran; but the Gryphon
only answered 'Come on!' and ran the faster, while more and more
faintly came, carried on the breeze that followed them, the
melancholy words:--

'Soo--oop of the e--e-evening,
Beautiful, beautiful Soup!'

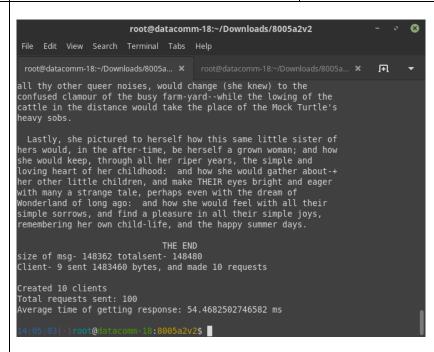
CHAPTER XI

Who Stole the Tarts?
```

4 Test more than 10 files is sent from client to select server and back

All files are sent from client to server and echoed back

Pass



5 Check connection for select server for maximum connections

Maximum number of connections should be around 1000

Pass

```
14:13:51(-)root@datacomm-18:8005a2v2$ netstat -an | grep :7000 | grep ESTABLISHED | 1000 | 14:14:38(-)root@datacomm-18:8005a2v2$ ■
```

```
Pass/Fail
Test
     Test Description
                                       Expected Result
     Test to ensure that the epoll server
                                       Server can run properly without
                                                                       Pass
     can run successfully
                                       any errors
      14:46:28(-)root@datacomm-20:8005a2v2$ python3 epoll server.py 192.168.0.20 7000
     Running report...
     Num active peers = 0
       5:00:43(-)root@datacomm-18:8005a2v2$ python3 client2.py 192.168.0.20 7000 4000 1 alice.txt
2
     Test to ensure that the client can
                                       Client can connect to server after
                                                                       Pass
     connect to epoll server
                                       typing in correct arguments (see
                                       help manual)
     accepted from ('192.168.0.18', 38644)
     accepted from ('192.168.0.18', 38646)
     accepted from ('192.168.0.18', 38648)
     accepted from ('192.168.0.18', 38650)
     accepted from ('192.168.0.18', 38652)
      Running report...
     Num active peers = 4000
     Running report...
     Num active peers = 4000
      Running report...
     Num active peers = 4000
     Running report...
     Num active peers = 4000
     Running report...
     Num active peers = 4000
```

File successfully sent from client to Test one file is sent with one request **Pass** from client to server and back server and echoed back root@datacomm-18:~/Downloads/8005a2v2 neighbouring pool--she could hear the rattle of the teacups as the March Hare and his friends shared their never-ending meal, and the shrill voice of the Queen ordering off her unfortunate guests to execution--once more the pig-baby was sneezing on the Duchess's knee, while plates and dishes crashed around it--once more the shriek of the Gryphon, the squeaking of the Lizard's slate-pencil, and the choking of the suppressed guinea-pigs, filled the air, mixed up with the distant sobs of the miserable Mock Turtle. So she sat on, with closed eyes, and half believed herself in Wonderland, though she knew she had but to open them again, and all would change to dull reality--the grass would be only rustling in the wind, and the pool rippling to the waving of the reeds--the rattling teacups would change to tinkling sheepbells, and the Queen's shrill cries to the voice of the shepherd boy--asize of msg- 148362 totalsent- 147456 nd the sneeze of the baby, the shriek of the Gryphon, and all thy other queer noises, would change (she knew) to the confused clamour of the busy farm-yard--while the lowing of the cattle in the distance would take the place of the Mock Turtle's heavy sobs. Lastly, she pictured to herself how this same little sister of ners would, in the after-time, be herself a grown woman; and how she would keep, through all her riper years, the simple and loving heart of her childhood: and how she would gather about-+ her other little children, and make THEIR eyes bright and eager with many a strange tale, perhaps even with the dream of Wonderland of long ago: and how she would feel with all their simple sorrows, and find a pleasure in all their simple joys, remembering her own child-life, and the happy summer days. size of msg- 148362 totalsent- 148480 Client- 99 sent 148346 bytes, and made 1 requests Created 100 clients Total requests sent: 100 Average time of getting response: 50.89639902114868 ms Test more than 10 files is sent from All files are sent from client to **Pass** epoll client to server and back server and echoed back Created 100 clients Total requests sent: 100 Average time of getting response: 50.89639902114868 ms 5 Check connection for epoll for Maximum number of connections **Pass** should be around 4000+ maximum root@datacomm-18:8005a2v2\$ netstat -an | grep :7000 | grep ESTABLISHED | wc -l (4000 atacomm-18:8005a2v2\$

1	Check to ensure that	Error is shown when	Passed
	wrong server IP or port	incorrect arguments	
	results in error	are displayed	

```
L4:07:22(-)root@datacomm-20:8005a2v2$ python3 select1.py 192.168.0.21 7000

Traceback (most recent call last):
File "select1.py", line 45, in <module>
sock.bind((SERVER_IP, PORT_NUMBER))

DSError: [Errno 99] Cannot assign requested address
```