Lattakia - Tishreen University

Department of Communication and electrical engineering

 5^{th} , Network Programming : Homework No2



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قسم هندسة الاتصالات والالكترونيات

السنة الخامسة: وظيفة2 برمجة شبكات

Name:__Braa Amoon_______, Number:____2714______, Submitted To GitHub:__BraaAmoon____

Second Network Programming Homework

Question 1: TCP Server/Client Quiz App with Multi-threading?

As an improvement to previous first homework, build a TCP server and client quiz application using Python. The server should handle multiple client connections simultaneously using multi-threading. The application should allow clients to connect, participate in a quiz, and receive their quiz scores upon completion.

Requirements:

- A. The server should be able to handle multiple client connections concurrently.
- B. The quiz should consist of a set of pre-defined questions stored on the server.
- C. Each client should connect to the server and receive the quiz questions.
- D. Clients should send their answers to the server.
- E. The server should keep track of the scores for each client.
- F. At the end of the quiz, the server should send the final scores to each client.

Guidelines:

- Use Python's socket module "don't use 3thd-party packages".
- Implement multi-threading to handle multiple client connections concurrently.
- Store the guiz guestions and correct answers on the server side.

Notes:

- Write brief report describing the design choices you made and any challenges faced during implementation.
- You can make a TCP Server/Client of your choice, such as Bank ATM, Chat application, or any other appropriate application that fulfil all requirements.

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السنة الخامسة: وظيفة 2 برمجة شبكات

Name:__Braa Amoon_______, Number:_____2714______, Submitted To GitHub:__BraaAmoon____

Explanation

قمت بتخزين أسئلة الاختبار في ملف json تم استيراده في خادم ال tcp وتخزين محتواه في dictionary ، قمت بربط socket السيرفر بالحاسب المحلي عن طريق العنوان 127.0.0.1 ، إن serverTcp يعمل على mainThread وكل client جديد يقوم السيرفر بإنشاء Tread خاصة بهذا الclient ليعمل فيها ويعود هو لينتظر client جديد

في تابع العمل: handle_request نقوم بالمرور على كل أسئلة الاختبار المخزنة في d1 وإرسالها لل client ونستقبل منه إجابة كل سؤال ونخزنها في dicionary جديد d2 ونختبر إجابة كل سؤال إن كانت صحيحة نقوم بزيادة ال score ونخزن أيضاً إجابات ال client الصحيحة في dictionary مختلف correct Answer

عند الانتهاء نخزن ال score في d2 ونطبع إجابات المستخدم مع الscore وأيضاً نقوم بطباعة إجاباته الصحيحة فقط

ولإرسال كل مما سبق لل client لا نستطيع إرسال dictionary فقمت بتعريف string فلرغة تمر على كل عناصر dictionary وتخزن محتواه وفي النهاية نقوم بعمل ()encode ونرسل النتائج لل client

قمت بإنشاء three client:

كل منها تستقبل الأسئلة الخاصة بالاختبار وتدخل الإجابات وترسلها للسيرفر وفي النهاية تستقبل النتيجة

The code of server:

```
import socket, threading
import json

fl=open('D:\\project\\network
programming\\homework2\\venv\\quiz .json','r')
dl=json.load(f1)
f1.close()

ss=socket.socket(socket.AF_INET, socket.SOCK_STREAM)
ss.setsockopt(socket.SOL_SOCKET, socket.SO_REUSEADDR, 1)
ss.bind(('127.0.0.1',7777))
ss.listen(5)

def handel_request(i,csocket,cadd):
```

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```
Name: Braa Amoon
                          Number:
                                  2714
                                         Submitted To GitHub: BraaAmoon
    print('Accepted new client:',i,cadd)
    print()
    while True:
        d2 = \{ \}
        correctAnswers={}
        score = 0
        for key, val in d1.items():
            csocket.send(key.encode())
            cmsg = csocket.recv(1024).decode()
            x=int(cmsq)
            d2[key] = [x]
            if x == d1[key]:
                 score += 1
                 correctAnswers[key] = [x]
        if val==400:
            print(d2)
            print('the correct Answer of client',i,' is:
, correctAnswers)
            for key,val in d2.items():
                 s+=key
                 s+='
                 s+=str(val)
                 s+=' '
            for key, val in correctAnswers.items():
                 c += key
                 c += str(val)
            csocket.send(s.encode())
            csocket.send('the correct Answer'.encode())
            csocket.send(c.encode())
            csocket.close()
while True:
    print('[+]TCP MultiThreads server waiting for new
    cs, cadd=ss.accept()
client=threading.Thread(target=handel request, args=(i, cs,
cadd))
```

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السنة الخامسة: وظيفة 2 برمجة شبكات

```
Name:_Braa Amoon_____, Number:___2714____, Submitted To GitHub:_BraaAmoon___
client.start()
i+=1
```

the code of clients:

```
import socket
cs=socket.socket(socket.AF_INET, socket.SOCK_STREAM)
cs.settimeout(150)
try:
    cs.connect(('127.0.0.1',7777))

while True:
    data = cs.recv(1024).decode()
    print(data)
    req=input()
    cs.sendall(req.encode())

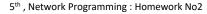
except socket.error as err:
    print(err)
finally:
    cs.close()

print('end')
```

the output of server:

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السنة الخامسة: وظيفة2 برمجة شبكات

Number: 2714 _, Submitted To GitHub:__BraaAmoon__ Name: Braa Amoon 3 ? ': [9], 'Q4:what is the square of the number 4 ? ': [16], 'Q5:what is the square of the number 5 ? ': [25], 'Q6:what is the square of the number 6 ? ': [Q3:what is the square of the number 3 ? ': [9], 'Q4:what is the square of the number 4 ? ': [16], 'Q5:what is the square of the number 5 ? ': [25], 'Q6:what TCPClient1 X TCPClient2 × TCPClient3 **立** -? ': [36], 'Q7:what is the square of the number 7 ? ': [49], 'Q8:what is the square of the number 8 ? ': [64], 'Q9:what is the square of the number 9 ? ': [9 6:what is the square of the number 6 ? ': [36], 'Q7:what is the square of the number 7 ? ': [49], 'Q8:what is the square of the number 8 ? ': [64], 'Q20:what TCPClient1 TCPClient2 > TCPClient3 **‡** : [9], 'Q10:what is the square of the number 10 ? ': [10], 'Q11:what is the square of the number 11 ? ': [11], 'Q12:what is the square of the number 12 ? what is the square of the number 20 ? ': [400]} TCPClient1 > TCPClient2 TCPClient3 [raceback (most recent call last): self._target(*self._args, **self._kwargs) OSError: [WinError 10038] An operation was attempted on something that is not a socket {'Q1:what is the square of the number 1 ? ': [1], 'Q2:what is the square of the number 2 ? ': [4], 'Q3:what is the square of the number 3 ? ': [9], 'Q4:what the correct Answer of client 3 is: {'Q1:what is the square of the number 1 ? ': [1], 'Q2:what is the square of the number 2 ? ': [4], 'Q3:what is the square File "C:\Users\cham.tech\AppData\Local\Programs\Python\Python310\lib\threading.py", line 1016, in _bootstrap_inner OSError: [WinError 10038] An operation was attempted on something that is not a socket {'Q1:what is the square of the number 1 ? ': [1], 'Q2:what is the square of the number 2 ? ': [4], 'Q3:what is the square of the number 3 ? ': [9], 'Q4:what the correct Answer of client 2 is: {'Q1:what is the square of the number 1 ? ': [1], 'Q2:what is the square of the number 2 ? ': [4], 'Q3:what is the squar

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قسم هندسة الاتصالات والالكترونيات

 Name:Braa Amoon	_, Number:2714	_, Submitted To GitHub:BraaAmoon	
		5], 'Qó:what is the square of the number 6 ? ': [3 is the square of the number 5 ? ': [25], 'Qó:what	
		5], 'Qó:what is the square of the number 6 ? ': [3 is the square of the number 5 ? ': [25], 'Qó:what	
		[8], 'Q9:what is the square of the number 9 ? ': 2:what is the square of the number 12 ? ': [144],	
		[8], 'Q9:what is the square of the number 9 ? ': hat is the square of the number 10 ? ': [100], '(

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				Name:I	Braa Amoon	, Num	ber:2	714,	Submitted To G	tHub:BraaAr	moon	
				re of the numb the number 20	er 10 ? ': [100]) ? ': [400]}], 'Q11:what	is the squar	re of the num	ber 11 ? ': [47]	, 'Q12:what is	the square of	the numbe
					iber 10 ? ': [100 ': [121], 'Q12:V							
	[144], ')13:what i	s the square	of the number	13 ? ': [14],	'Q14:what is	the square	of the number	er 14 ? ': [14]	, 'Q15:what is	the square of	the number
12 ? ' [400]}	: [144],	'Q13:what	is the squar	e of the numb	er 13 ? ': [52]	, 'Q14:what	is the squa	re of the nur	nber 14 ? ': [1	5], 'Q15:what :	is the square	of the numb

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السنة الخامسة: وظيفة2 برمجة شبكات

Name:__Braa Amoon_______, Number:____2714______, Submitted To GitHub:__BraaAmoon____

The output of client1:

```
TCPClient1 × 💮 TCPClient2 × 🧓 TCPClient3
TCPServer ×
"D:\project\network programming\homework2\venv\Scripts\pyt
Q1:what is the square of the number 1 ?
Q2:what is the square of the number 2 ?
Q3:what is the square of the number 3 ?
Q4:what is the square of the number 4 ?
Q5:what is the square of the number 5 ?
Q6:what is the square of the number 6 ?
Q7:what is the square of the number 7 ?
Q8:what is the square of the number 8 ?
Q9:what is the square of the number 9 ?
Q10:what is the square of the number 10 ?
Q11:what is the square of the number 11 ?
```

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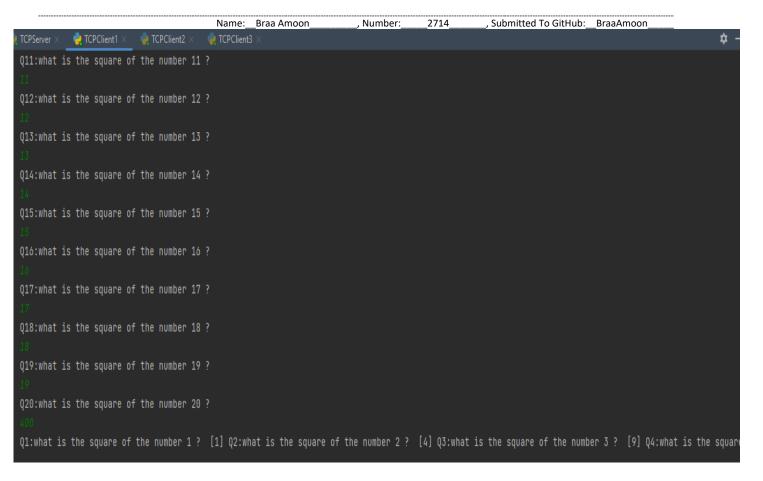


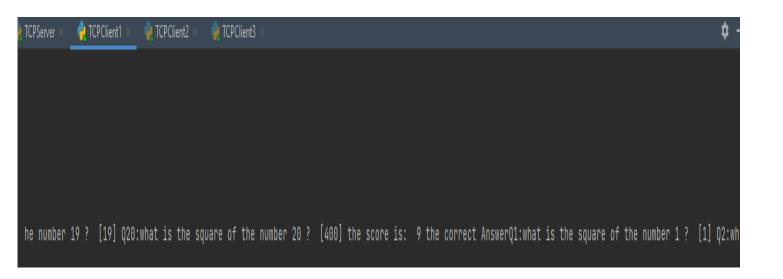
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السنة الخامسة: وظيفة2 برمجة شبكات

Name:__Braa Amoon______, Number:____2714_____, Submitted To GitHub:__BraaAmoon____

The output of client2:

```
TCPClient2 ×
TCPServer >
           TCPClient1 ×
                                         TCPClient3
"D:\project\network programming\homework2\venv\Scripts\python.exe" "D:\project\network programming
Q1:what is the square of the number 1 ?
Q2:what is the square of the number 2 ?
Q3:what is the square of the number 3 ?
Q4:what is the square of the number 4?
Q5:what is the square of the number 5 ?
Q6:what is the square of the number 6?
Q7:what is the square of the number 7 ?
Q8:what is the square of the number 8 ?
Q9:what is the square of the number 9 ?
Q10:what is the square of the number 10 ?
Q11:what is the square of the number 11 ?
Q12:what is the square of the number 12 ?
```

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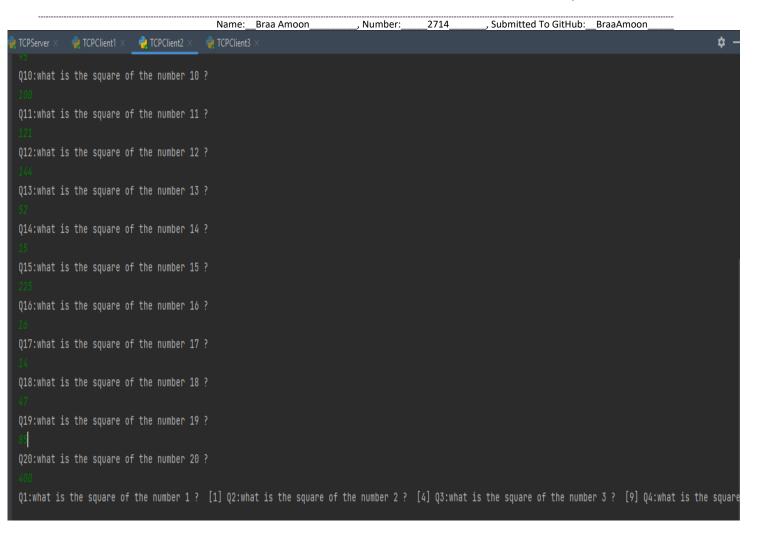


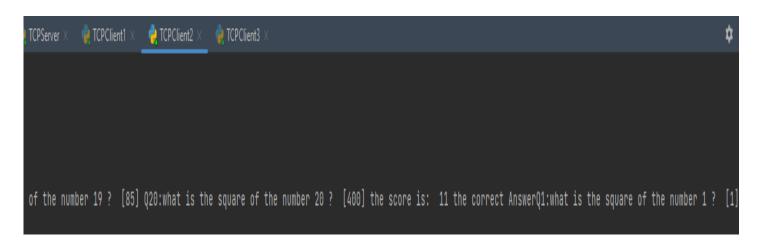
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السنة الخامسة: وظيفة2 برمجة شبكات

Name:__Braa Amoon______, Number:____2714_____, Submitted To GitHub:__BraaAmoon____

The output of client3:

```
TCPServer × 💮 TCPClient1 × 💮 TCPClient2 ×
                                        TCPClient3
"D:\project\network programming\homework2\venv\Scripts\python.
Q1:what is the square of the number 1 ?
Q2:what is the square of the number 2 ?
Q3:what is the square of the number 3 ?
Q4:what is the square of the number 4 ?
Q5:what is the square of the number 5 ?
Q6:what is the square of the number 6 ?
Q7:what is the square of the number 7 ?
Q8:what is the square of the number 8 ?
Q9:what is the square of the number 9 ?
Q10:what is the square of the number 10 ?
Q11:what is the square of the number 11 ?
```

Name:__Braa Amoon_

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, Number:_

2714_

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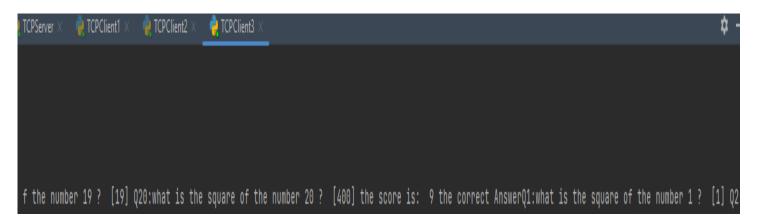
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السنة الخامسة: وظيفة2 برمجة شبكات

, Submitted To GitHub:__BraaAmoon__

TCPServer ×	🖣 TCPClient1 ×	🗬 TCPClient2 ×	🙀 TCPClient3 ×	\$ -
100 Q11:what i	is the square o	of the number 11	?	
Q12:what i	is the square o	of the number 12		
Q13:what i	is the square o	of the number 13		
Q14:what i	is the square o	of the number 14		
Q15:what i	is the square o	of the number 15		
Q16:what i	is the square o	of the number 16		
		of the number 17		
		of the number 18		
		of the number 19		
		of the number 20	?	



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السنة الخامسة: وظيفة 2 برمجة شبكات

Name:__Braa Amoon_______, Number:_____2714______, Submitted To GitHub:__BraaAmoon____

Question 2: Simple Website with Python Flask Framework

Create a simple website with multiple pages using Flask, HTML, CSS, and Bootstrap. The website should demonstrate your understanding of web design principles.

Requirements:

- A. Set up a local web server using XAMPP, IIS, or Python's built-in server (using Flask).
- B. Apply CSS and Bootstrap to style the website and make it visually appealing.
- C. Ensure that the website is responsive and displays correctly on different screen sizes.
- D. Implement basic server-side functionality using Flask to handle website features.

The code of flask:

```
from flask import Flask,render_template

app=Flask(__name__)
@app.route('/')
def info():
    return (render_template('bootstr.html'))

if __name__ == "__main__":
    app.run(debug=True)
```

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Name:__Braa Amoon_______, Number:_____2714______, Submitted To GitHub:__BraaAmoon____

Bootstr.html:

```
<!DOCTYPE html>
<html lang="en">
    <meta charset="UTF-8">
   <meta http-equiv="X-UA-Compatible" content="IE=edge">
   <meta name="viewport" content="width=device-width, initial-</pre>
scale=1.0">
    <link rel="stylesheet"</pre>
href="https://cdn.jsdelivr.net/npm/bootstrap-
icons@1.3.0/font/bootstrap-icons.css">
   link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.0/dist/css/bootstrap.m
in.css" rel="stylesheet" >
    <title>Bootstrap Tutorial</title>
</head>
<body>
    <div class="navbar navbar-expand-md bg-dark navbar-dark text-</pre>
white">
       <div class="container">
   <a href="#" class="navbar-brand">Bootstrap Tutorial</a>
          <button
           class="navbar-toggler"
           type="button"
           data-bs-toggle="collapse"
           data-bs-target="#mainmenu">
           <span class="navbar-toggler-icon"></span>
           </button>
           <div class="collapse navbar-collapse" id="mainmenu">
               <a href="#hero" class="nav-</pre>
link">Features</a>
                   <a href="#learn" class="nav-link drpodown-
toggle">Learn
                      </a>
```

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```
Name: Braa Amoon
                               Number:
                                       2714
                                               Submitted To GitHub: BraaAmoon
                    <a href="#fag" class="nav-</pre>
link">Mistakes</a>
                </div>
        </div>
    </div>
    <section id="hero" class="bg-dark text-light text-center text-sm-</pre>
start py-5">
        <div class="container">
            <div>
                <div class="py-3">
                    <h1 class="display-4"><span class="text-info">Learn
Bootstrap</span></h1>
                    Bootstrap is a free framework
used to facilitate the process of designing web pages for the
developer, as it provides him with ready-made CSS classes that he can
use to show the components that we add in the pages in a very beautiful
and responsive manner with the page size (Buttons) , Text Fields, Drop
Down Menus, and other helpful things such as alert messages that we
show to the user. So the design that you rely on Bootstrap to build,
will appear beautifully on the user's device, whether he is using a
phone, computer, tablet, or any other device. This framework is
supported by the Twitter company and is readily available and free for
all and is always being developed and adding more features to it, and
until this moment version 4.4.1 is its latest official version
                    <button class="btn btn-info">Get Started</putton>
                <img class="img-fluid w-50" src="//hero.svg" alt="">
            </div>
        </div>
    </section>
    <section class="py-5">
        <div class="container">
            <h2 class="text-center mb-3">
                Features
            </h2>
            <div class="row text-center">
```

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```
Name: Braa Amoon
                              , Number:
                                       2714
                                               Submitted To GitHub:__BraaAmoon
                <div class="col-sm-12 col-md-6 col-lg-4">
                   <div class="card bg-dark text-light mb-3">
                       <div class="h1 mt-3">
                           <i class="bi bi-arrow-down-left-square-</pre>
fill"></i>
                       </div>
                       <div class="card-body text-center">
                           <h4 class="card-title"> <span class="text-
info">Responsive</span></h4>
                           It is compatible with
various screens
                           <a href="#" class="btn btn-info">Learn
More</a>
                       </div>
                    </div>
               </div>
                <div class="col-sm-12 col-md-6 col-lg-4">
                    <div class="card bg-dark text-light mb-3">
                   <div class="h1 mt-3">
                       <i class="bi bi-bounding-box"></i></i>
                   </div>
                   <div class="card-body text-center">
                       <h4 class="card-title"> <span class="text-
info">Easy Styling</span></h4>
                       It has css templates
ready
                       <a href="#" class="btn btn-info">Learn More</a>
                   </div>
                </div></div>
                <div class="col-sm-12 col-md-6 col-lg-4"><div</pre>
class="card bg-dark text-light">
                   <div class="h1 mt-3">
                       <i class="bi bi-bricks"></i>
                   <div class="card-body text-center">
                       <h4 class="card-title"> <span class="text-
info">Fast Working</span></h4>
                       It saves a lot of
effort
                       <a href="#" class="btn btn-info">Learn More</a>
                    </div>
               </div></div>
```

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قسم هندسة الاتصالات والالكترونيات

```
Name: Braa Amoon
                                        2714
                                                 Submitted To GitHub: BraaAmoon
                               . Number:
            </div>
        </div>
    </section>
    <section id="learn" class="py-5">
        <div class="container">
            <div class="row align-items-center justify-content-center">
                <div class="col-md">
                    <h2>Technical Information</h2>
                    The Bootstrap framework is considered Front-End
because it is used in the design of the user interface, not in its
programming. In general, the Bootstrap framework consists of HTML, CSS
and Javascript, and it depends on other available libraries such as
Jquery and PopperJs, but of course you as a developer do not care at
all about the nature of the relationship between them because it is the
responsibility of the Bootstrap developers and not the developers who
use it. For information, Bootstrap relies on Jquery for the effects it
adds to designs and anything related to hiding and showing, and relies
on PopperJs in order to improve the user experience for touch screens
(Touch Screen), such as the user dealing with your page through his
phone or any tablet.
                </div>
                <div class="col-md">
                    <h2>A good editor for Bootstrap </h2>
                     When working with the Bootstrap framework, you
can use any editor that has comfortable colors and has plugins that
make writing commands easier, such as VSCode, Atom, or any other
editor.
                </div>
            </div>
        </div>
    </section>
    <section id="next" class="py-5 bg-dark text-light">
        <div class="container">
            <div class="row align-items-center justify-content-center"</pre>
flex-row-reverse">
                <div class="col-md">
                    <h2>How to include the Bootstrap framework</h2>
```

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كلية الهندسة الكهربائية والميكانيكية

قسم هندسة الاتصالات والالكترونيات

```
Name: Braa Amoon
                                . Number:
                                         2714
                                                  Submitted To GitHub: BraaAmoon
                      Before starting with Bootstrap, you must
include the Bootstrap libraries in any page you want to use it on.
There are two main ways to do this: You download its files and add them
to the project. You only include links to its files in the project so
that it is automatically uploaded to it
                </div>
                <div class="col-md">
                    <h2>Bootstrap rules</h2>
                    1-Row classes must be inside .container for
fixed width of the page or .container-fluid for full width 2-Row is
used to make a horizontal group of columns. 3-Content is preferably
placed inside the columns only
                </div>
            </div>
        </div>
    </section>
    <section id="faq" class="py-5">
        <div class="container">
            <h2 class="text-center mb-3">
                Mistakes
            </h2>
            <div class="accordion accordion-flush" id="bt-fag">
                <div class="accordion-item">
                    <h5 class="accordion-header" id="question-one"</pre>
data-bs-parent="#bt-faq">
                         <button class="accordion-button collapsed"</pre>
type="button" data-bs-toggle="collapse" data-bs-target="#answer-one">
                             Mistake 1
                         </hutton>
                     <div class="accordion-collapse px-4 " id="answer-</pre>
one">
                         Believing that you don't need to know CSS to
use this framework and that you don't need a designer.
                    </div>
                </div>
                <h5 class="accordion-header" id="question-Two" data-bs-</pre>
parent="#bt-fag">
                     <button class="accordion-button collapsed"</pre>
type="button" data-bs-toggle="collapse" data-bs-target="#answer-one">
```

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قسم هندسة الاتصالات والالكترونيات
السنة الخامسة: وظيفة2 برمجة شبكات

```
Name: Braa Amoon
                                , Number:
                                         2714
                                                 Submitted To GitHub: BraaAmoon
                        Mistake 2
                    </button>
                </h5>
                <div class="accordion-collapse px-4 " id="answer-Two">
                    Using everything that Bootstrap has to offer
                </div>
            </div>
            <h5 class="accordion-header" id="question-Three" data-bs-</pre>
parent="#bt-faq">
                <button class="accordion-button collapsed"</pre>
type="button" data-bs-toggle="collapse" data-bs-target="#answer-one">
                    Mistake 3
                </button>
            <div class="accordion-collapse px-4" id="answer-Three">
                Neglecting tools that make development easier with
Bootstrap
            </div>
        </div>
            </div>
        </div>
    </section>
    <section>
        <footer class="py-5 bg-dark text-white text-center">
            <div class="containter">
                graduate © 2023 Braa Amoon
                <a href="#">
                    <i class="bi bi-arrow-up-circle h2"></i>
            </div>
        </footer>
    </section>
src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.0/dist/js/bootstrap.bun
dle.min.js" integrity="sha384-
```

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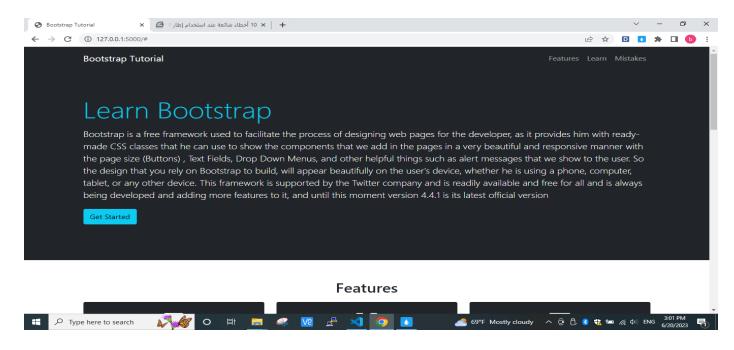
كلية الهندسة الكهربائية والميكانيكية

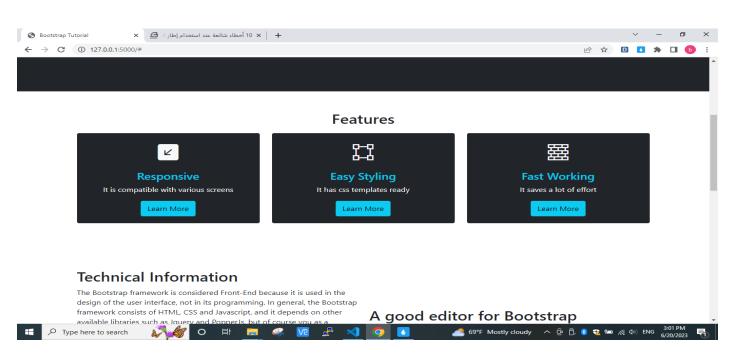
قسم هندسة الاتصالات والالكترونيات

السنة الخامسة: وظيفة 2 برمجة شبكات

Website:

</html>





Name:__Braa Amoon_

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*,* Number:

الجمهورية العربية السورية

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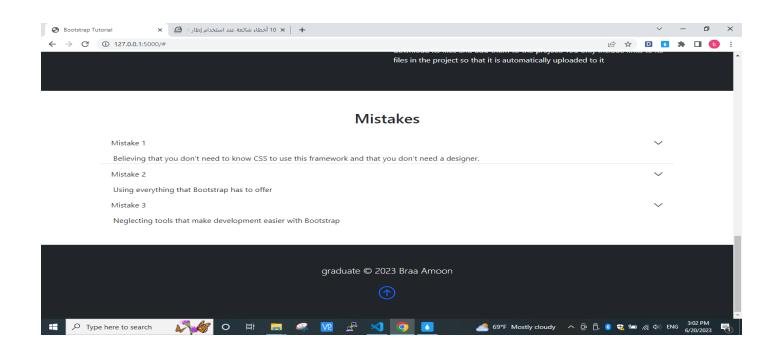
قسم هندسة الاتصالات والالكترونيات

السنة الخامسة: وظيفة2 برمجة شبكات

_, Submitted To GitHub:__BraaAmoon__

S Bootstrap Tutorial 🗙 🔑 10 أخطاء شائعة عند استخدام إطار 🏿 🕒 + ← → C ① 127.0.0.1:5000/# 🖻 🖈 🛛 🚺 🖈 🔲 📵 How to include the Bootstrap **Bootstrap rules** framework 1-Row classes must be inside .container for fixed width of the page or .container-fluid for full width 2-Row is used to make a horizontal group of Before starting with Bootstrap, you must include the Bootstrap libraries in any page you want to use it on. There are two main ways to do this: You download its files and add them to the project. You only include links to its columns. 3-Content is preferably placed inside the columns only files in the project so that it is automatically uploaded to it Mistakes Mistake 1 Believing that you don't need to know CSS to use this framework and that you don't need a designer. Using everything that Bootstrap has to offer Neglecting tools that make development easier with Bootstrap

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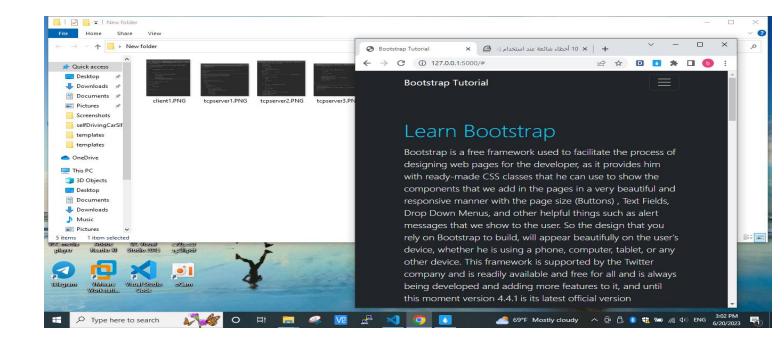
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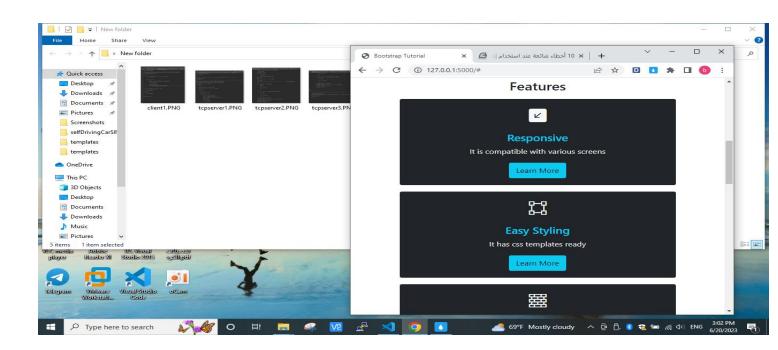
كلية الهندسة الكهربائية والميكانيكية

قسم هندسة الاتصالات والالكترونيات

السنة الخامسة: وظيفة2 برمجة شبكات

Name: __Braa Amoon ______, Number: ____2714 _____, Submitted To GitHub: __BraaAmoon ____





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Name:__Braa Amoon_______, Number:____2714______, Submitted To GitHub:__BraaAmoon____