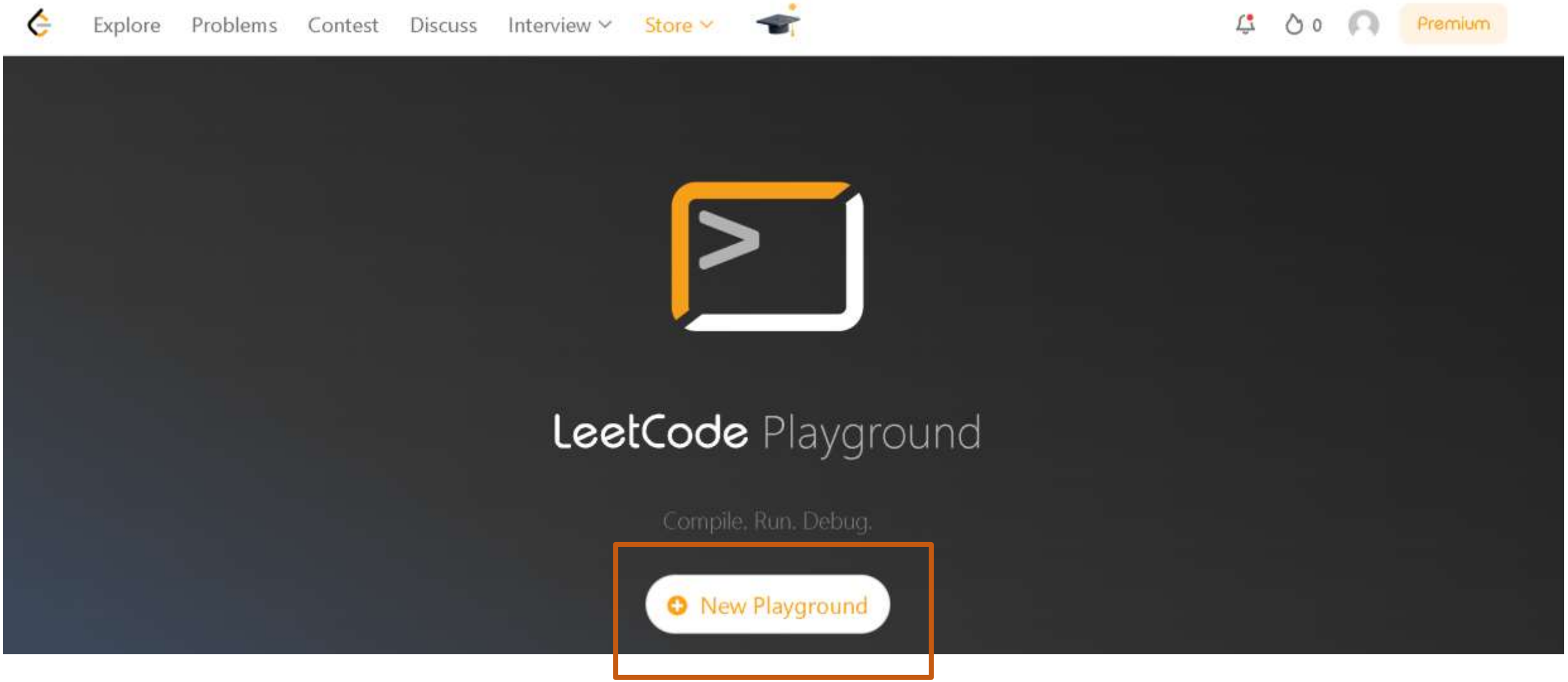
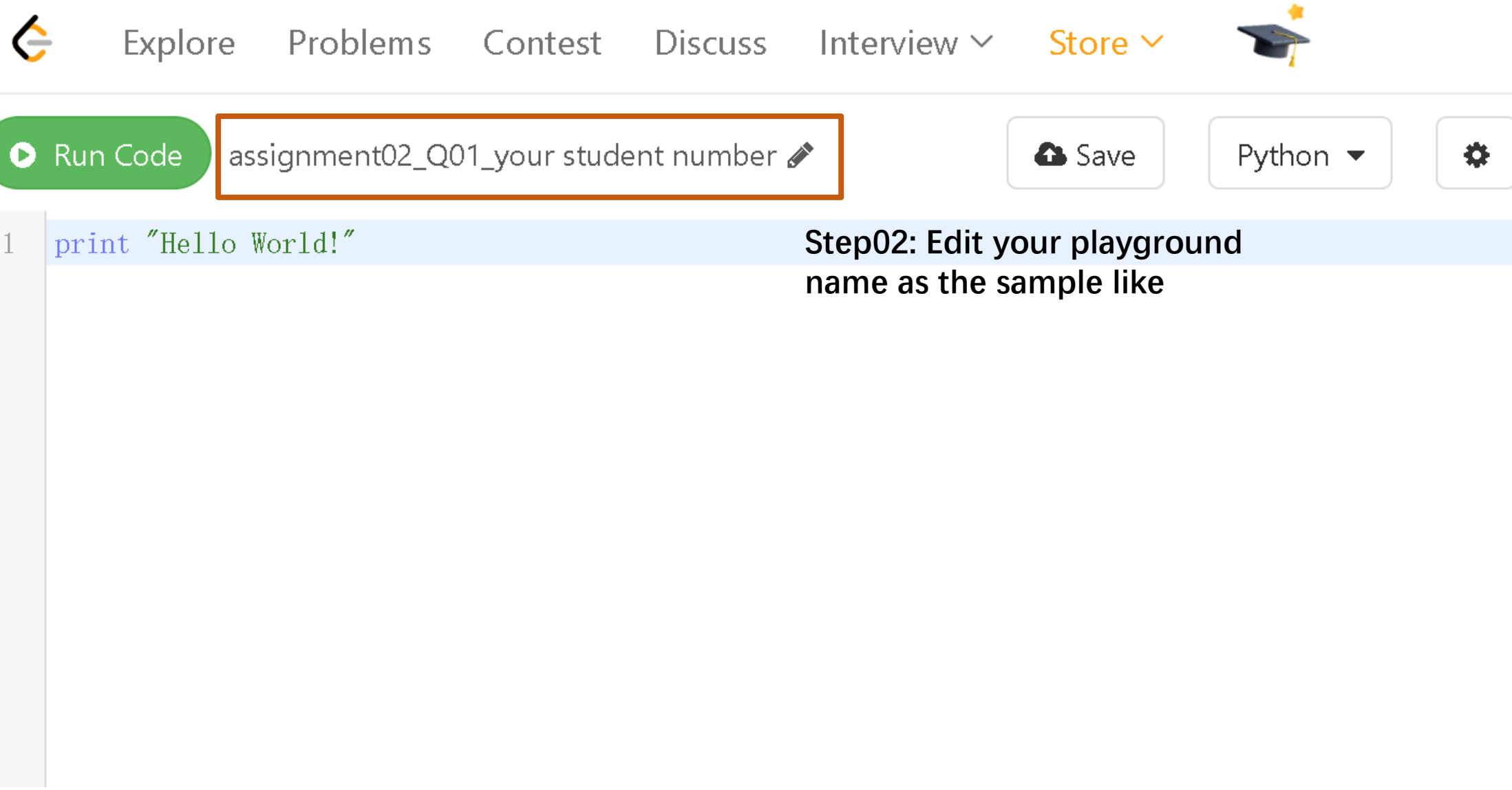


Step01:Create a new playground


Explore
Problems
Contest
Discuss
Interview
Store
Run Code
assignment02_Q01_your student number
Save
Python
1
print "Hello World!"
Step02: Edit your playground name as the sample like

Run Code | assignment02_Q01_your student number | Save | Python

```
#Q01(the serial number of the question)
#Count down to zero(the task of the question)
def countdown(n):#define a function named countdown()
    print(n)
    if n==0:# Terminate condition
        return
    else:# Recursive call
        countdown(n-1)
countdown(6)#Test
```

Output: Finished | Clear Console

```
Finished in 23 ms
6
5
4
3
2
1
0
```

Step03: Complete your code and run it. And don't forget to take screenshots of your codes and outcomes which should be presented on your assignment paper

The sample assignment paper of assignment02 is as follow : (please submit the pdf version in your Moodle)

Assignment02_your student number（CDS2003）

Q01:

Count down a nonnegative number to zero $n, n-1, n-2, \ldots, 0$

A01:

Run Code | assignment02_Q01_your student number | Save | Python

```
#Q01(the serial number of the question)
#Count down to zero(the task of the question)
def countdown(n):#define a function named countdown()
    print(n)
    if n==0:# Terminate condition
        return
    else:# Recursive call
        countdown(n-1)
countdown(6)#test
```

Premium

Output: Finished | Clear Console

```
Finished in 12 ms
6
5
4
3
2
1
0
```

Q02:

Calculate the factorial of a nonnegative integer n, where $n! = n \times (n-1) \times (n-2) \times \cdots \times 2 \times 1$ and $0! = 1$

A02:

Run Code | assignment02_Q02_your student number | Save | Python

```
#Q02(the serial number of the question)
## factorial with Recursion(the task of the question)
def factorial_Recur(n):#define a function named factorial_Recur()
    if n==0:# Terminate condition
        return 1
    return n*factorial_Recur(n-1)
print (factorial_Recur(6))#test
```

Output: Finished | Clear Console

```
Finished in 23 ms
720
```

Q03:

.....

A03:

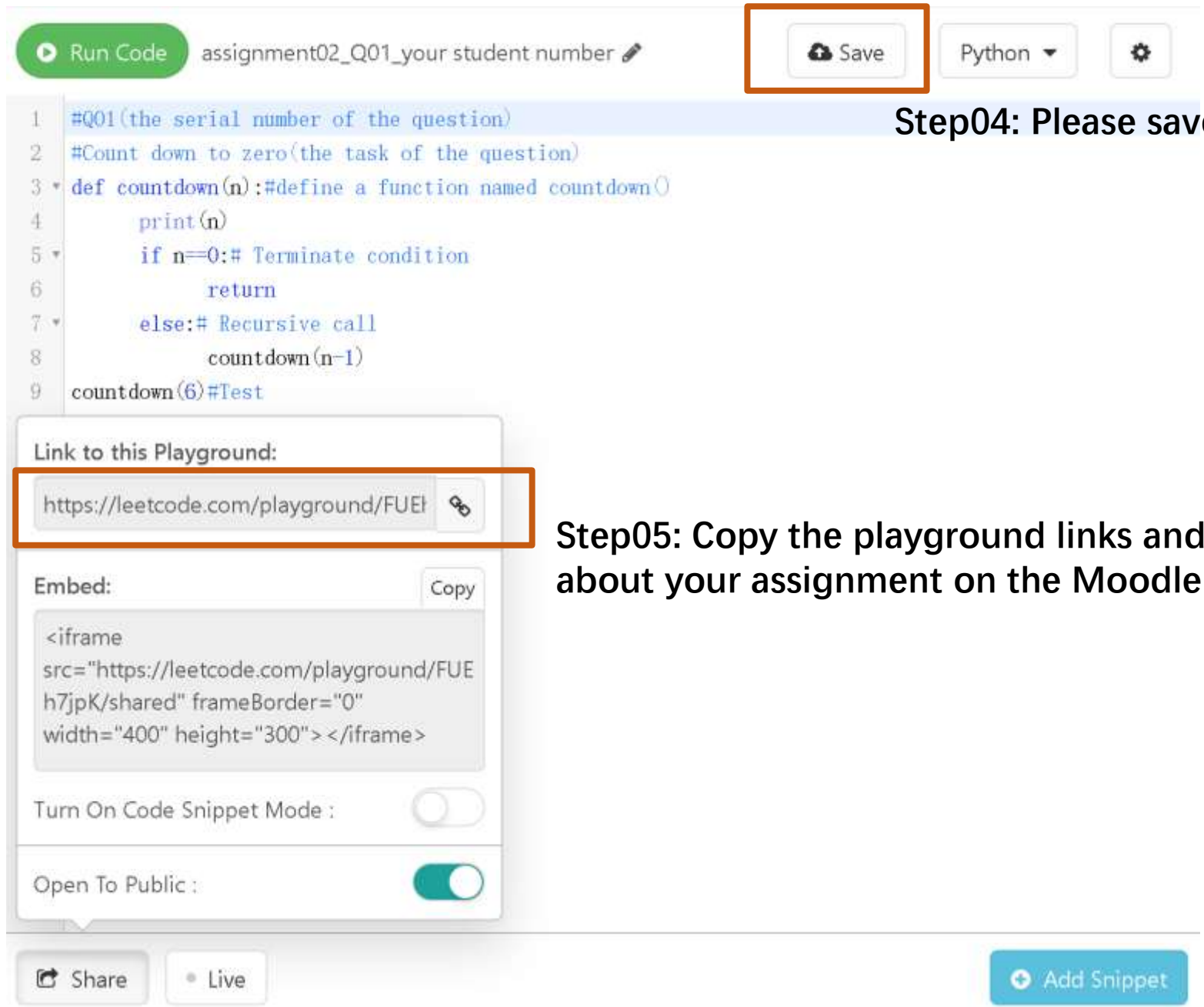
.....

Q04:

.....

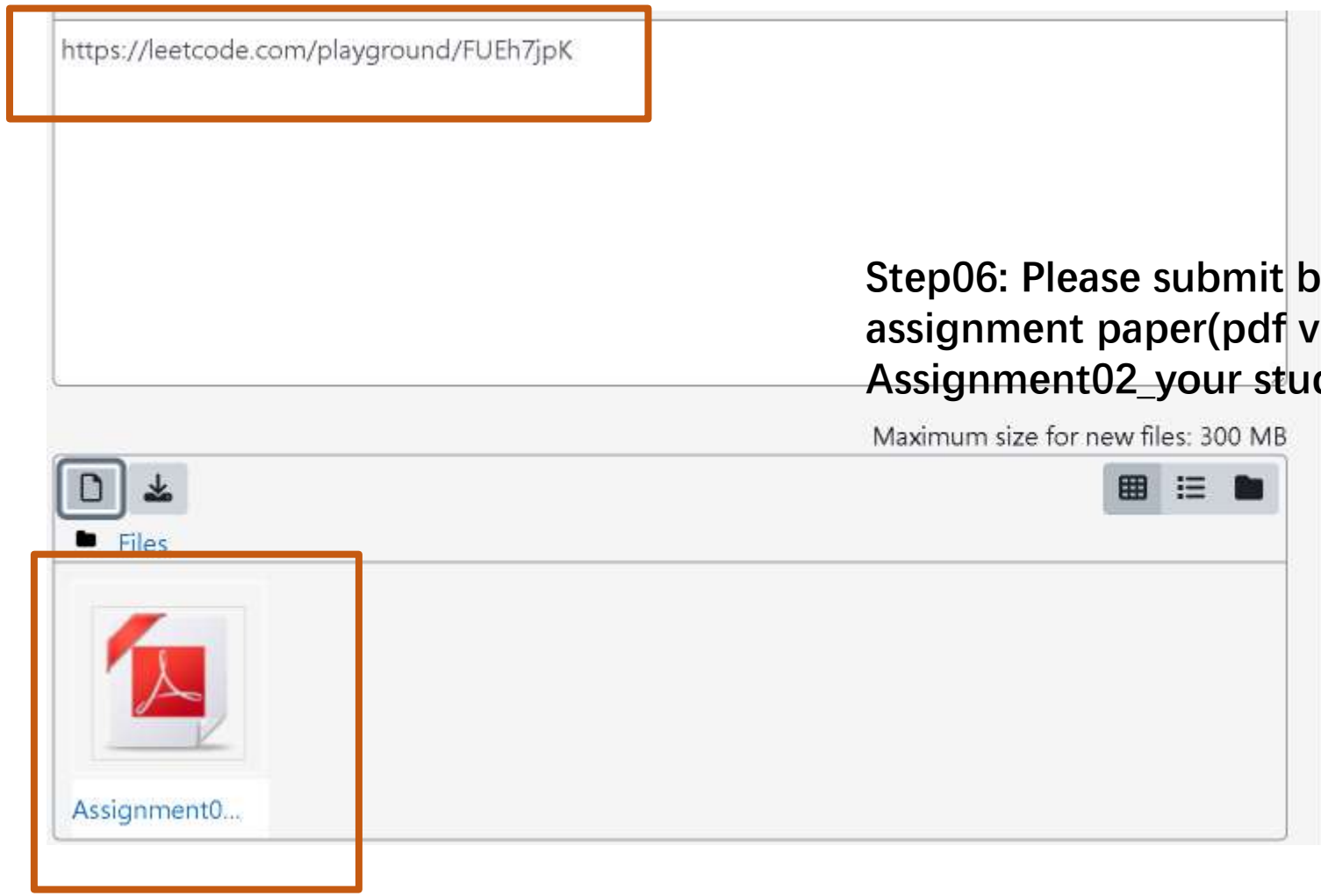
A04:

.....



Step04: Please save your code first

Step05: Copy the playground links and paste all of them about your assignment on the Moodle



Step06: Please submit both the links and the assignment paper(pdf version entitled ” Assignment02_your student number”)