Submission:

- You must submit all your work in one "jupyter notebook" with your Name and ID in the first cell. Then upload your notebook file into the JUST *e-learning* system.

Requirements:

1. [10 Points] Write one jupyter cell to evaluate all of the following expressions, make sure to run the cell before submission.

Expression	Result
`print("CS"+"is"+"fun")`	
`print("CS"+(2 * 'is'+"fun"))`	
`print('Double "')`	
`print('Single \'')`	
`print('Single '''')`	
`print('A' + 'ok')`	
`print('A' + str(eval('4 // 2')))`	
`print('A' * 4)`	
`print('A' + str(4//2))`	
`print('A' + repr(4//2))`	

2. [20 Points] Write one jupyter cell to evaluate all of the following expressions, make sure to run the cell before submission. Assume that `s = 'Hello World!'`

Expression	Result
`print(s[1])`	
`print(s[1:5])`	
`print(s[:5])`	
`print(s[5:])`	
`print(s[50:100])`	
`print(s[-1])`	
`print(s[-1:5])`	
`print(s[:-5])`	
`print(s[-5:-1])`	
`print(s[-1:-2:-1])`	
`print(s[-1:-5:-2])`	
`print(s[0:-5])`	
`print(s[-100:0:-1])`	
`print('e' in s)`	
`print('x' in s)`	
`print(s.index('e'))`	
`print(s.index('l',5))`	
`print(s.find('e'))`	
`print(s.find('x'))`	
`print(s.count('o'))`	

3. [20 Points] Write one jupyter cell to evaluate all of the following expressions, make sure to run the cell before submission.
   Assume that `alist = ['H','e','l','l','o',' ','W','o','r','l','d','!']`

Expression	Result
`alist.remove('o')` `print(alist)`	
`alist.remove('x')` `print(alist)`	
`pos = alist.index('o')` `print(pos)`	
`pos = alist.index('B')` `print(pos)`	
`alist[0] = 'J'` `print(alist)`	
`alist.insert(4,'o')` `print(alist)`	
`s = alist[:]` `print(s)`	

`s[0] = 'C'`
`print(s)`
`print(alist)`	

`a = '-'.join(s)`
`print(a)`
`print(len(a))`	

`a = ''.join(s)`
`print(a)`
`print(len(a))`	

`L = list(a)`
`print(L)`
`print(len(L))`	

`t = tuple(L)`
`print(t)`
`print(len(t))`	

`s = set(t)`
`print(s)`
`print(len(s))`	