Practice Python Programming Language here:

https://www.w3resource.com/python-exercises/

Practice Programming here:

The following problems can be easily solved by using the concepts that we learned in python session. These questions are hosted on hackerrank. Hackerrank is an online platform for competitive coding. You need to sign up to access these questions.

[LVL 1]

1.) https://www.hackerrank.com/challenges/divisible-sum-pairs/problem

2.) https://www.hackerrank.com/challenges/circular-array-rotation/problem

3.) https://www.hackerrank.com/challenges/kangaroo/problem

4.) https://www.hackerrank.com/challenges/sock-merchant/problem

5.) https://www.hackerrank.com/challenges/designer-pdf-viewer/problem

6.) https://www.hackerrank.com/challenges/find-digits/problem

7.) https://www.hackerrank.com/challenges/camelcase/problem

8.) https://www.hackerrank.com/challenges/caesar-cipher-1/problem

9.) https://www.hackerrank.com/challenges/reduced-string/problem

10.) https://www.hackerrank.com/challenges/pangrams/problem

11.) https://www.hackerrank.com/challenges/alternating-characters/problem

12.) https://www.hackerrank.com/challenges/the-love-letter-mystery/problem

[LVL 2]

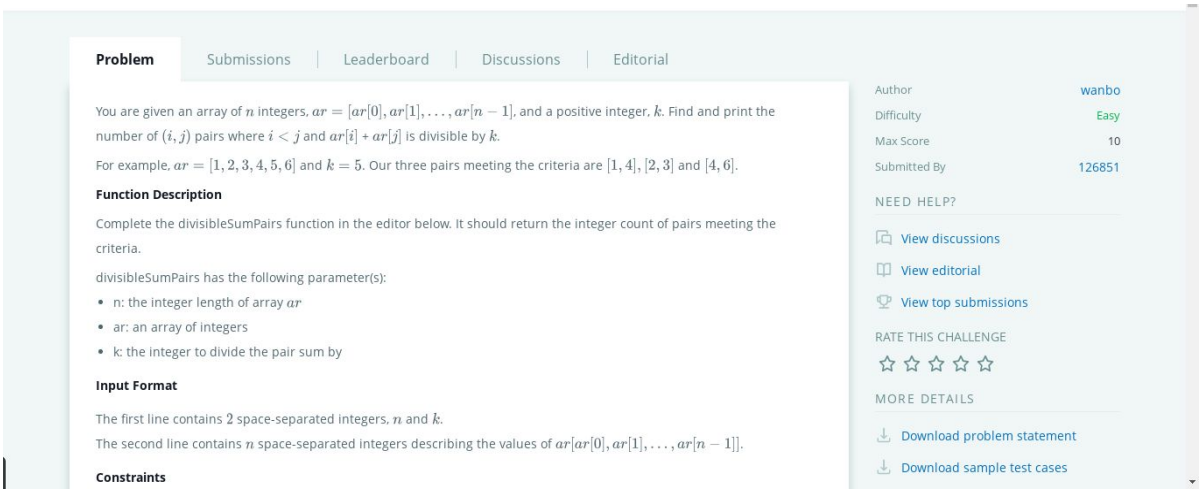
13.) https://www.hackerrank.com/challenges/encryption/problem

14.) https://www.hackerrank.com/challenges/bigger-is-greater/problem

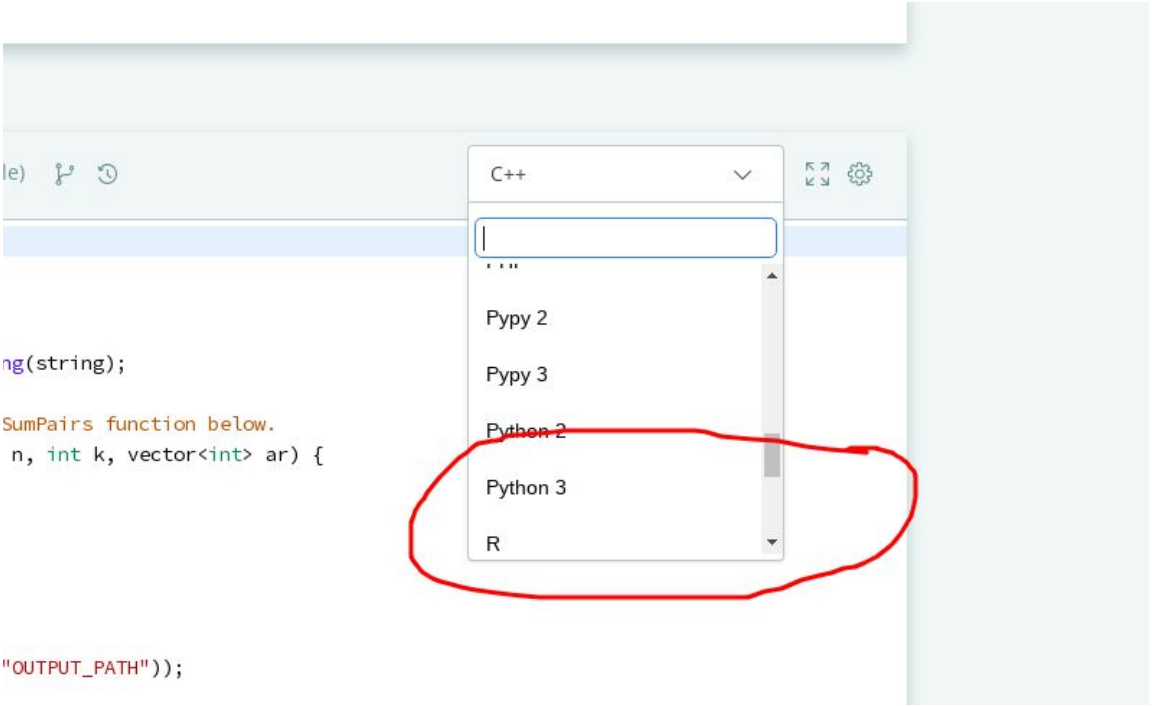
15.) https://www.hackerrank.com/challenges/the-grid-search/problem
--> This problem can be solved easily in python. And extremely easy while using python numpy.

Instructions:

Once you sign up on hackerrank you can use one of those links to get to the exercise.



Scroll down to write you code and change the programming language to **Python3.**

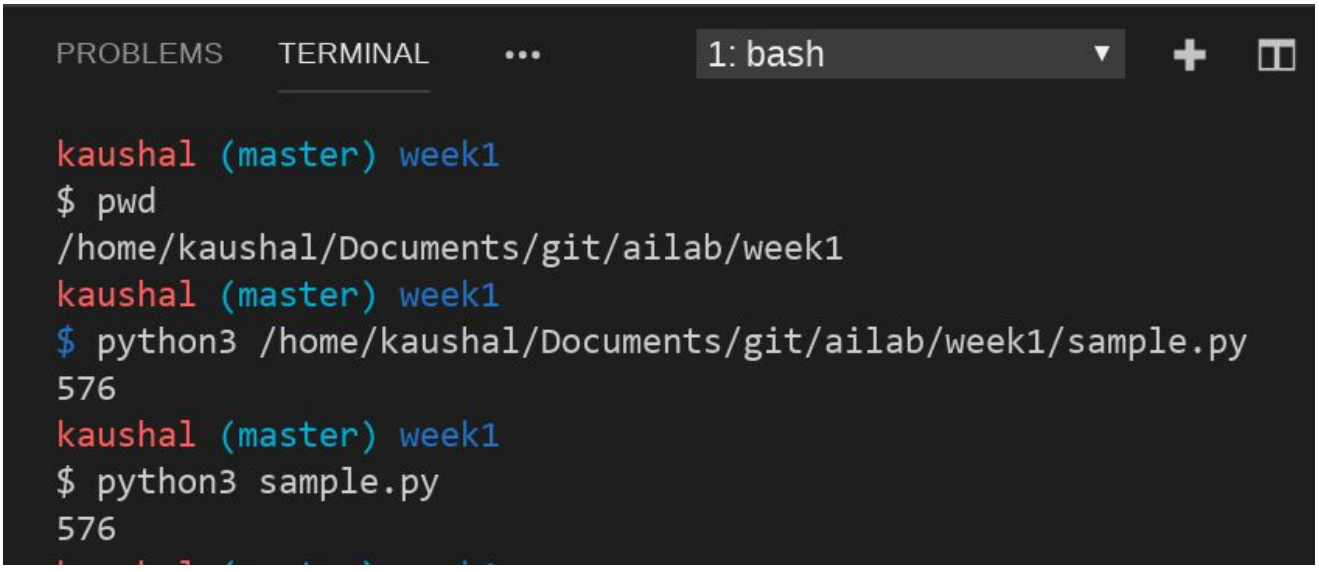


Click on Submit Code to check the results.

Basic Coding Format for python:

During the python session we used jupyter notebook to code. But like any other language we can also type python scripts into a text file. The above image shows a python script **"sample.py"** where **' .py '** is the python extension. To execute any python script on your local system type the following command on terminal:

python3 <location-of-the-file>



pwd : this command prints the current working directory

And the absolute path of the file ‘sample.py’ is :
/home/kaushal/Documents/git/ailab/week1/sample.py

Hence to execute the program, type the following command:

python3 /home/kaushal/Documents/git/ailab/week1/sample.py

But you don’t need to type the absolute path of the file to execute the python script. Instead you can change your current working directory to the directory containing the python script and execute the script as follows:

python3 sample.py

In the above example my current working directory was already set to **/home/kaushal/Documents/git/ailab/week1/** and hence I didn’t need to change it explicitly. But if this is not the case you can use the **‘cd’** command to change the current working directory.

Submission:

If you have completed more than 7 questions on the hackerrank, make a zip file and send it to me. Don’t forget to comment your code and put your name in the code.

First person to complete more than 12 questions before 12 september will receive a nice reward from Data Analysis Club.

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