Day 5 For 100p

for item in list-item:

the sange () tunction.

eg. fruits = ["Apple", "Peach", "Pear"] for fruit in fruits:

print (fruit)

A for loop is used jor iterating over a sequence (that is either a list, a tuple, a dictionary, aset, or astring).

This is less like the for Keyword in other programming language, and works more like an iterator method. so four

with the for loop we can execute a set of statements, once for each item in a list, tuple, settlets. Some

- . The for loop does not require an indexing variable to set beforehand? all plugs of aldison sith revenued
 - -> Looping through a string.

-> storings are iterable objects, they contain a sequence of characters.

sulov derrier print (x) 93 of old 1209 is to avoid 1 gd

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The range () Function.

To loop through a set of code a Specified humber of times, we can use the rangel function,

· The range() function returns a sequence of numbers, Starting from 0 by default, and increments by 1 (by default), and ends at a specified number.

Using the range() function:

(Suite and for x in range(6): A

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Note.

Note.

Trange(6) is not the value of 0 +0 6,

The trange () function default to 0 as a starting value however it is possible to specify the starting value by adding a parameter.

range (2,6) -> Which means values from 2+06 (but not including 6)

· The range () function defaults to increment the sequence by 1, however it is possible to specify the increment value by adding a third parameter

range (2,30,3)

 $\rightarrow 2, 5, 8, 11 \dots$

Average height Exercise. Exercise - 5.1 St-height = input ("Input a list of student heights"). split() for n in range (o, lan (Student-hight))? St-hight [h] = int (student-hight[h]) Immer = # St. might = student-higher print (st-height) Sum = 0. (lotat) takes - 2 for n in range (0 for n in st-height: len +=1 . 0 = Slotot Sum += n for temper in sange (1) 101) Avg = sum/len: 0 == colondarion fi Avg = round (Avg)

print (" The total Average hight: " + Avg) Exercise - 5.2 As the Higesht Score Student-scores = [Exercise - 5.4 highest-score = 0. for scores in student-scores. if score > heighist-score!) some in it héghest-score = score = 0 print (j" The height score in the clan is: & highest-score;") Suar) tring elif in 16 8 1 = 0 and nops = = 0; (" srudssi] " I tring

Exercise -5.3 Densored Adgress Adding Evens. () tigs . (staged miner for the starting point ending point one place before so for 100 total = 0 // 1 pul - 9 minut for number in range (1, 101, 2): we have increased # print (number) by 2 for only total t= number felling even print (total) other way to do: total 2 = 0. for number in range (1,101) if number % 2 == 0: # Beside using total t = number. The value which -print (murbes total) 2 completely and encos thespill adding only those to total Exercise - 5.4 FIZZ BUZZ ni in range (190101) intoud if n % 3 = = 00: = 2000 2 d serious print ("Fizz") elif has % 3 = = 0: and named no 65 print ("Buzz") elif 'n% 3 = = 0 and n% 5 == 0; print ("FizzBuzz") else: point (n)

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well it has a bug
for like number 15.
       it will print (fizz and Exit.
So, we have to change the order of condition,
        if no/03 == 0 and no/05==0;
              print ("Fizzbuss")
       cuf n% 8==0:
        elif n% 5 == 0
        else:
             print (n)
+ Project - Pypass Generator.
    Alphabets = [
    letters = I part I allegated
   Symbols = I
   print ("welome") # Fare chart and code
   m-letters = int selection in repository.
   hr- Symbols = intl
    hr - numbers = intl
    for letter in (0, nr_letter+1):
             letters = random, choice (letters)
         symbler (0, nr-symbols +1):
             lette = symbol = xxxxxb. randon.choi ve (symbols)
         Alphabets & in range (o, no. bumbet)
```

for