1. yarn install
2. create a new database called ‘submissions’ (same level as students, questions)
3. use your own .env file instead

4.The rule to use the code challenges and grading the code.

Go to Firebase to create the "questions" database. All the Field types are string.

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| Field Name: | Description |
| questionAnswer: | * Use \n to connect between each line of code * Unless something like loop or function is used, no space between codes * Each line of code in a loop or function, for example, needs to have two spaces in it. If it's something like a loop with a loop in it, you need to add 4, and so on. (for, def and other similar first sentences without spaces) |
| questionCode: | * If students just need to write the function, add the test code here to run their code. * Each code line needs to be followed by an "\n" * If they do not need to write function, just use "#" instead. |
| questionFiller: | Notes on questions, such as function names, and how to use |
| questionID: | Unique ID to distinguish the question |
| questionString: | Details of Question |
| questionTitle: | Title of question |
| questionHint: | Hints |
| questionType: | * Type of different questions * Like condition\_statement can called”condition” |

DO NOT HAVE ANY EXTRA SPACE IN FIREBASE DATABASE!

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| Field Name: | Example |
| questionAnswer: | def multiplication\_or\_sum(num1, num2):\n product = num1 \* num2\n if product <= 1000:\n return product\n else:\n return num1 + num2\n |
| questionCode: | result = multiplication\_or\_sum(20, 30)\nprint("The result is", result)\nresult = multiplication\_or\_sum(40,30)\nprint("The result is", result)\n |
| questionFiller: | #Use the code below to run and write the function called multiplication\_or\_sum(num1,num2)\n#After the function is finished, add a newline and remove the space before the mouse |
| questionID: | 10002 |
| questionString: | Given two integer numbers return their product only if the product is equal to or lower than 1000, else return their sum. |
| questionTitle: | Calculate the multiplication and sum of two numbers |
| questionHint: | Create a function that will take two numbers as parameters Next, Inside a function, multiply two numbers and save their product in a product variable Next, use the if condition to check if the product >1000. If yes, return the product Otherwise, use the else block to calculate the sum of two numbers and return it. |
| questionType: | condition |

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| Field Name: | Example |
| questionAnswer: | def first\_last\_same(numberList):\n first\_num = numberList[0]\n last\_num = numberList[-1]\n if first\_num == last\_num:\n return True\n else:\n return False\n |
| questionCode: | numbers\_x = [10, 20, 30, 40, 10]\nprint("result is", first\_last\_same(numbers\_x))\nnumbers\_y = [75, 65, 35, 75, 30]\nprint("result is", first\_last\_same(numbers\_y))\n |
| questionFiller: | #Use the code below to run and write the function called first\_last\_same(numberList)\n#After the function is finished, add a newline and remove the space before the mouse |
| questionID: | 10005 |
| questionString: | Write a function to return True if the first and last number of a given list is same. If numbers are different then return False |
| questionTitle: | Check if the first and last number of a list is the same |
| questionHint: | Consider the position of first and last number in list |
| questionType: | condition |

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| Field Name: | Example |
| questionAnswer: | income = input('Enter Income ')\ntax\_payable = 0\nincome = int(income)\nif income <= 10000:\n tax\_payable = 0\nelif income <= 20000:\n x = income - 10000\n tax\_payable = x \* 10 / 100\nelse:\n tax\_payable = 0\n tax\_payable = 10000 \* 10 / 100\n tax\_payable += (income - 20000) \* 20 / 100\nprint("Total tax to pay is", tax\_payable)\n |
| questionCode: | # |
| questionFiller: | #Example should like input one income to calculate the total tax\n#Example\n#Enter Income Total tax to pay is\n |
| questionID: | 10006 |
| questionString: | First $10,000 Rate is 0% Next $10,000 Rate is 10% The remaining Rate is 20% |
| questionTitle: | Calculate income tax for the given income by adhering to the below rules |
| questionHint: | Divided according to different prices, Need to use the input function to enter the income |
| questionType: | condition |

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| Field Name: | Example |
| questionAnswer: | name = input("Please enter your name.")\nif name == "Bond":\n print("Welcome on board 007.")\nelse:\n print("Good morning " + name)\n |
| questionCode: | # |
| questionFiller: | #Example should like input name\n#Example\n#Please enter your name.Welcome ..... or Good morning....\n |
| questionID: | 10007 |
| questionString: | Write an if statement that asks for the user's name via input() function. If the name is "Bond" make it print "Welcome on board 007." Otherwise make it print "Good morning NAME". (Replace Name with user's name) |
| questionTitle: | Write the welcome information |
| questionHint: | input() function will return the input from the user. An if – else statement will achieve what you need. |
| questionType: | condition |

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| Field Name: | Example |
| questionAnswer: | def count\_l(a):\n c = 0\n for i in a.split():\n if "l" in i:\n c = c+1\n else:\n pass\n return c\n |
| questionCode: | str = "Oranges and lemons, Say the bells of St. Clement's. You owe me three farthings, Say the bells of St. Martin's"\nprint(count\_l(str))\n |
| questionFiller: | #Use the code below to run and write the function called count\_l(a)\n#After the function is finished, add a newline and remove the space before the mouse\n |
| questionID: | 10008 |
| questionString: | Write a function named "count\_l" that counts the number of words that contain the letter: "l" in a given string. |
| questionTitle: | Calculate the number of "l" in given string |
| questionHint: | Divided according to different prices |
| questionType: | condition |