1. yarn install
2. use your own .env file instead

3.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 |

DO NOT HAVE ANY EXTRA SPACE IN FIREBASE DATABASE!

1. Function

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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 |

1. For loop

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| Field Name: | Example |
| questionAnswer: | print("Printing current and previous number and their sum in a range(10)")\nprevious\_num = 0\nfor i in range(1, 11):\n x\_sum = previous\_num + i\n print("Current Number", i, "Previous Number ", previous\_num, " Sum: ", x\_sum)\n previous\_num = i\n |
| questionCode: | # |
| questionFiller: | #Code below\n#Example Output\n# Printing current and previous number and their sum in a range(10)\n#Current Number 1 Previous Number 0 Sum: 1\n#...... |
| questionID: | 10003 |
| questionString: | Write a program to iterate the first 10 numbers and in each iteration, print the sum of the current and previous number. |
| questionTitle: | Print the sum of the current number and the previous number |

1. Customer Input

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| Field Name: | Example |
| questionAnswer: | word = input('Enter word ')\nprint("Original String:", word)\nsize = len(word)\nprint("Printing only even index chars")\nfor i in range(0, size - 1, 2):\n print("index[", i, "]", word[i]) |
| questionCode: | # |
| questionFiller: | #Code below\n#Example Output\n#Enter word Original String: acbd\n#Printing only even index chars\n#index[ 0 ] a\n#index[ 2 ] b\n |
| questionID: | 10001 |
| questionString: | Write a program to accept a string from the user and display characters that are present at an even index number.For example, str = "pynative" so you should display ‘p’, ‘n’, ‘t’, ‘v’ |
| questionTitle: | Print the sum of the current number and the previous number |

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| Field Name: | Example |
| questionAnswer: | def remove\_chars(word, n):\n print('Original string:', word)\n x = word[n:]\n return x\n |
| questionCode: | print("Removing characters from a string")\nprint(remove\_chars("pynative", 4))\nprint(remove\_chars("pynative", 2))\n |
| questionFiller: | #Use the code below to run and write the function called remove\_chars(word,n)\n#After the function is finished, add a newline and remove the space before the mouse |
| questionID: | 10004 |
| questionString: | Write a program to remove characters from a string starting from zero up to n and return a new string. For example: remove\_chars("pynative", 4) so output must be tive. Here we need to remove first four characters from a string. |
| questionTitle: | Remove first n characters from a string |

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| Field Name: | Example |
| questionAnswer: | def first\_last\_same(numberList):\n print("Given list:", 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 |

If need to add more questions in there, use the function in useEffect() in Landing.js to find the questions by using questionID. Then, call the questions and code components to create a new one. Just add after these two if need more problems. (All in Landing.js)

Graphical user interface, text

Description automatically generated

Text

Description automatically generated