

Name:

Student ID:

Task 1. Write a piece of Python code that:

1. Creates a dictionary: the keys of the dictionary should be even numbers from 10 to 30 (30 included), the values of the dictionary should be square roots of corresponding keys, example, for keys in range (0, 4], the result would be {1: 1, 2: 1.41, 3: 1.73, 4: 2}
2. Computes the product of the values in the dictionary created in point 1. If you don't know how to do the first part of the task, you can just write code for computing the product of values in any dictionary.

Task 2. Which Python types are mutable?

Task 3. Let `sentence = 'Today the temperature is 10 degrees'`.

1. Using string methods or indexing and slicing, return the number included in `sentence`;
2. Modify the variable `sentence`, so that instead of a value 10, there is a value 30

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Task 1. Write a piece of Python code that:

1. Creates a list of cubed values (x^3); the values that are cubed should be numbers divisible by 5 from range 5 to 100 (100 included) (x^3), example for range (1, 10], the result would be: [125, 1000]
2. Computes the product of the values in the list created in point 1. If you don't know how to do the first part of the task, you can just write code for computing the product of any list.

Task 2. Which Python types are immutable?

Task 3. Let `sentence = 'Today the temperature is 10 degrees'`.

1. Using string methods or indexing and slicing, return the second word ('the') included in `sentence`;
2. Modify a variable `sentence`, so that instead of a word `degrees`, there is a word `Fahrenheits`.