

Python Assignment

1. Build a game that guesses a number; the computer determines a secret number, and the player shall guess the number. For each guess, the computer tells if the number is too high or too low.
2. Generate a random String of length 5. Note: String must be the combination of the UPPER case and lower case letters only. No numbers or a special symbol. You may need to look at the 'string' module, you can use **'string.ascii_letters'**.
3. Generate a random date between given start and end dates. Hint: you may need to look at the **'time'** module.
4. Search for the **'secret'** module and build a program that generates random secure token of 64 bytes and random URL.
5. Write a program to output a random even number between 0 and 10 inclusive using random module and list comprehension.
6. Write a program to output a random number, which is divisible by 5 and 7, between 10 and 150 inclusive using random module and list comprehension.
7. Write a program to generate a list with 5 random numbers between 100 and 200 inclusive. Hint: Use random.sample() to generate a list of random values.
8. Write a Python program to find the three elements that sum to zero from a set (array) of n real numbers by using classes.
For example: Input array : [-25, -10, -7, -3, 2, 4, 8, 10] Output : [[-10, 2, 8], [-7, -3, 10]]
9. Write a Python class to find a pair of elements (indices of the two numbers) from a given array whose sum equals a specific target number.
Note: There will be one solution for each input and do not use the same element twice.
Ex:
Input: numbers= [10,20,10,40,50,60,70], target=50
Output: 3, 4