**Lab\_08. Dict**

1. Create a list of your favorite musicians.

2. Create a dictionary containing various data about you: height, favorite color, favorite actor, etc.

3. Write a program that asks the user for their weight, favorite color, or actor and returns the result of the dictionary created in the previous task.

4. Create a dictionary linking your favorite musicians to a list of your favorite songs written by them.

5. There are a number of dictionaries with intersecting keys (values are positive numbers). Write 2 functions that do the following operations with an array of dictionaries:

**1st function max \_ dct (\* dicts )** forms a new dictionary according to the rule:

If there are duplicate keys in the source dictionaries, we select the maximum among their values and assign this key (for example, dictionary\_1 has the key “a” with the value 5 , and dictionary\_2 has the key “a”, but with the value 9. Choose the maximum value, t i.e. 9 , and assign the key “a” in the already new dictionary).

If the key is not repeated, then it is simply transferred with its value to the new dictionary (for example, the key “c” was found only in one dictionary, while others do not. Therefore, we transfer this key along with its value to the new dictionary). We return the generated dictionary.

**The 2nd function sum \_ dct (\* dicts )** sums the values of duplicate keys. The values of the other keys remain the same. (Operations are carried out similar to the first function, but not the maxima are taken, but the sums of the values of the keys of the same name). Function returns formed dictionary .