**Task 4**

1. What is CRUD operations.

CREATE, READ, UPDATE and DELETE

In database

1. What is ODOO meaning.

**Odoo** is a Belgian suite of [business management software](https://en.wikipedia.org/wiki/Business_management_tools) tools including, for example, [CRM](https://en.wikipedia.org/wiki/Customer_relationship_management), e-commerce, billing, accounting, manufacturing, warehouse, project

management, and inventory management.

1. A language that combines python and c.

Cython

Ex **def** f(x):

**return** x\*\*2-x

**def** integrate\_f(a, b, N):

    s = 0

    dx = (b-a)/N

**for** i **in** range(N):

        s += f(a+i\*dx)

**return** s \* dx

1. Programming language Arabic.

* Khawarizmi
* Ya
* Qalb

1. What is clean code.

Code is clean if it can be understood easily – by everyone on the team. Clean code can be read and enhanced by a developer other than its original author. With understandability comes readability, changeability, extensibility and maintainability.

1. What is the difference between map in c++ and dect in python and which one is faster.

In C++, map is a container that stores key-value pairs. It is implemented as a balanced binary search tree and provides O(log n) time complexity for insertion, deletion and searching operations. In Python, dict is a built-in data type that stores key-value pairs. [It is implemented as a hash table and provides O(1) time complexity for insertion, deletion and searching operations**1**](https://stackoverflow.com/questions/2884068/what-is-the-difference-between-a-map-and-a-dictionary)[**2**](https://stackoverflow.com/questions/10066374/difference-between-map-and-dict).

Regarding which one is faster, it depends on the use case. If you need to maintain the order of elements or perform range queries, then map is faster. [If you need to perform frequent lookups by key, then dict is faster**1**](https://stackoverflow.com/questions/2884068/what-is-the-difference-between-a-map-and-a-dictionary).