Israa University

Data Structures and Algorithms Lab-1

Revision:

**define a Person class with a constructor and getter/setter methods for the name and age properties**

**In the Main class, create an array called people to hold Person objects**

**iterate through the people array, access the properties of each Person object, and print their names and age.**

**Example of Array Data Structure in Java**

**Two Sum problem :**

**Given an array of integers nums and an integer target, return indices of the two numbers such that they add up to target.**

**You may assume that each input would have exactly one solution, and you may not use the same element twice.**

**You can return the answer in any order.**

**(Test Cases):**

**Example 1:**

**Input: nums = [2,7,11,15], target = 9**

**Output: [0,1]**

**Explanation: Because nums[0] + nums[1] == 9, we return [0, 1].**

**Example 2:**

**Input: nums = [3,2,4], target = 6**

**Output: [1,2]**

**Example 3:**

**Input: nums = [3,3], target = 6**

**Output: [0,1]**

# ****What is version control?****

## It’s a system that records changes to files so that if ever the situation calls for it, you’d be able to revert to previous versions of “saved” progress.

# ****What is Github?****

## **It is a web-based app, which stores your projects / files in repositories**

# [How to push an existing Eclipse project to GitHub?](https://superuser.com/questions/423792/how-to-push-an-existing-eclipse-project-to-github)

1. Go to github create new repository
2. Copy http URL from github
3. Go to Eclipse --> Right click on project --> Team--> share project--> Create new Git Repo.
4. Go to Git Staging--> add to index --> commit and push
5. Right click on Git Repositories push to up stream
6. Paste your http URL of github which you copy in step 2
7. Enter username and password of github -- > Finish