1. Frontend development

* Classes of computer program

1. Mobile development

2. Frontend development

3. Backend development

NB: Programming languages: Java, Kotlin,Swift, C++ (mobile development)

Java script, Html, Css (frontend development)

* Backend Languages (framework)

>PHP (Hypertext preprocessor)

>Perl (Practical Extraction and Reporting Language)

>Kotlin

>C#

>RUBY

* Frontend frameworks

>REact

>Backend Js

>Ember.js

>Vue.js

>Angular

* Databases

>MySQL

>SQ Lite

>PostgreSQL

>Microsoft SQL server

>Oracle database

2. Q.A

**DEFINITION OF TESTS USED IN QA TESTING**

* Test case;

-is a documented set of instructions or steps designed to verify that a specific software or application feature is working as expected.

* Test strategy;

- Is a high-level plan that outlines the approach, scope, objectives, and methods for testing a software or system, guiding the entire testing process from planning to execution and reporting.

* Defect;

-is any flaw, error, or deviation from the expected behavior of a software application that can impact its functionality, performance, security, or usability.

* Bug life cycle ;

-is a systematic process that tracks a bug from its initial detection to resolution, encompassing stages like reporting, assigning, fixing, retesting, and closing.

* Severity vs Priority ;

-severity refers to the degree of impact a bug has on the system's functionality, while priority determines how urgently a bug needs to be fixed based on business or user impact.

* Test plan

-is a detailed document that outlines the entire testing process to ensure quality standards are met. (e.g strategy, objectives, timeline, resources, and testing methods to be used for evaluating a software application).

3. Front -end mobile

* How to user terminal
* Types of databases
* How kotlin works
* How and when to use databases

4.frontend web

* Creating repository
* Creating github account
* How to use VS
* How to connect github to vs
* How to deploy and make create accounts

5. NYJ

* How to take care of ourselves
* What to do when stressed
* How to be excellence
* How to achieve our goals

6.Python

* What is python;

Is a highland programming language created in1991 by Guido Van Rossun.

It's free and open source.

* **KEY FEATURES**

-Easy to use data structure

-Is an interpreted language (it uses python code run directly without needing compilation )

-It is an object oriented programming language

-It has an extensive standard library

-It requires minimal setups.

* *WHAT IS PYTHON USED FOR*

web development

**-**extensity used for building robust web app

-language used (Django, Flask, Fastapi)

.data analysis

-Library language (Numpy, Panda, Matploblib)

. Automation

-Writing scripts to automate repetitive tasks, like file management or web scraping.

. machine learning

-Developing and deploying machine learning models with libraries like Scikit-learn.

-(tensorflow, pytorch)

. scientific computing

-Developing and deploying machine learning models with libraries like Scikit-learn.

* Commands used by python

. software prototyping

. creating graphical user interfaces

7. Backend

* Languages used in backend development
* Databases
* How does backend processes inputs to come out with outputs
* About

8. Ux research

* How ux research works
* How to find persone
* How companies come up with follow all processes to come up with a product

9. UX/UI

* How computer work
* Features of a computer
* How a computer process data
* How does a computer save data
* Languages used in a computer