**Day 1 : 01-09-2022**

**Java Full stack**

Phase 1

Agile

Git

Core Java

Basic Programming

OOPs

Exception Handling

Multi threading : Overview

File handling

Collection Framework

Data Structure

Java 8 features

Phase 1 end project

Phase 2 : web application

Database – MySQL

Maven tool build

Jdbc

ORM : Hibernate tool

JEE : Java Enterprise Edition

Servlet

JSP

EJB

Phase 2 end project

Phase 3 : Spring Framework (backend technologies)

Spring core, context, mvc, dao, spring orm (jpa), spring rest, spring boot, spring micro service, spring data, into spring security etc.

Unit testing – Junit 5

Phase 3 end project.

Phase 4 : (frontend technologies)

Html

Css

Bootstrap

JavaScript

Adv Java

React JS

Phase 4 end project

Phase 5 : testing and deployment

TestNG

Selenium tool

Docker

CI and CD Jenkin

Kubernetes

AWS Overview

S3, EC2 instance etc

Phase 5 end project

Capstone project

Rest API 🡪JSON

Front end (React JS) backend (Spring boot) MySQL

Git : git is distributed sub version control which help to keep the track or record the execution of the application or program or software.

First create the folder : Repository

Then create the file inside a folder abc.txt

Then write some message inside abc.txt file

To make repository folder as git local repository

Please open terminal ie cmd, unix terminal or git bash terminal

git --version

git init : This command is use to make local repository as git local repository

git status : This command is use to check the current status of local repository

git add filename this command is use to add the file to staging area.

git add . This command is use to add all files or folder present in current location in staging area.

git commit –m “commit message”; you get error message if you are doing first time.

Remote repository

Git hub

Git lab

Code commit

Etc

First time we need to set email id and name for git terminal

git config --global user.email “[akash300383@gmail.com](mailto:akash300383@gmail.com)”

git config --global user.name “akash”

git branch : git branch is like pointer which hold more than one commit details.

Whenever we created local repository by default git provided default branch it may be main or master.

To check default branch name we can run the command as

git branch

creating user defined branch

git branch branchname

git checkout branchname

git merge branchname : this command to add user defined branch changes in current branch

git branch –D branchName : this command is use to delete local branch

git branch -M main : this command is use to rename branch name

git remote add origin <https://github.com/Kaleakash/testapp.git>

git remote add origin <https://token@github.com/username/repository.git>

This command is use to link local repository with remote repository

git push -u origin main

git push –u origin branchname

git hub provided token base authentication to push the data in remote repository.

Generating token

Right icon click on setting

Then left panel select developer setting option

Personal access token

Token classic

Click on generate new token option



After click generate the token



git remote remove origin This command is use to remove remote repository

link from local repository.

**Day 2 : 01-10-2022**

**Git clone https://github.com/Kaleakash/vadafone\_java\_fullstack\_2023\_batch.git**

This command is use to download new remote repository in local machine.

git pull

this command is use to pull updated contents from remote repository in existing local repository.

You need to run this command inside repository folder.

git clone URL

git pull

git branch (main or master)

git branch branchName

git checkout branchname

do the changes in my notes if you need

then if you want to get new updated from remote repository

move to master or main branch using command

git checkout main/master

git pull (in main or master branch)

do the changes in user defined branch.

Java : Java is platform independent and pure object oriented programming language.

Nov 1995. Initial name of the java is Oak. Developed by James gosling and team.

Java was belong to sun micro system and part of oracle.

Version of java 1.0 java 18, etc

Open jdk

object : object any real world entity

property or state 🡪 have -🡪 variables or fields.

Person

Behavior -🡪do/does -🡪 function or methods

Bank

Animal

Car

Customer

Employee

Product

Object is a concept.

class : class is blue print of object or template of object or user defined data types which help to describe the object.

syntax of the class

class ClassName {

fields or variable;

methods or function;

}

class Car {

int wheel;

float price;

String color;

void start() { }

void appliedGear() { }

void moving() { }

void stop() { }

}

Class name must be follow pascal naming rules.

1. If class contains one word then first letter must be upper case.
2. If class contains more than one word each word first letter upper case.

Car, Employee, Customer, Manager, EmployeeDetails, CustomerDetails etc.

Variable and methods must be follow camel naming rules.

1. If variable or method name contains one word. Then we need to use in lower case.
2. If it contains more than one word then from 2nd word onward first letter upper case.

First open any editor and write the java program

class Demo {

public static void main(String args[]) {

System.out.println(“Welcome”);

}

}

Save the file with className.java

Open the terminal in that location where java program saved.

javac Demo.java to compile the program

java Demo to run the program