**Day1\_QUESTIONS(Theory):**

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1.What is platform independent?

Ans : Software that can run on a variety of hardware platforms or software architectures.

Platform-independent software can be used in many different environments

For example, the Java programming language was designed to run on multiple types of hardware and multiple operating systems. Beacause in Java JVM (Vajav Virtual Machine) is makes Byte stream conversion so it makes java as a platform independent language.

2.What is open source?

Ans : Open Source denoting software for which the original source code is made freely available and may be redistributed and modified.

3.Difference between JDK,JRE,JVM?

Ans : JDK (Java Development Kit) : - it contains tool for developing, debugging

- whenever we want to develop a program in java JDK is essential for that

- JDK is Platform dependent

JRE (Java Runtime Environment) : - it contains predefined files and library’s

- JRE is a software bundle that allows java program to run

- JRE is platform dependent

JVM (Java Virtual Machine) : - it is used for memory allocation, object creation

- Byte Stream conversion & Memory allocation

- JVM is platform independent

4. why we go for java?

Ans: - java is Open Source language where original source code is made freely available and may be redistributed and modified.

- Java is Platform independent language so we use this on any Operating system (eg. Linux, Windows, etc.)

- Java provides Multithreading facility where Multiple tasks run parallelly.

- Portable: Write anywhere and run anywhere.

- More Secure

5.What is the latest version of JDK Day1 Class, method, object

Ans: Latest version of JDK – JDK 8u301

Class: Class is a combination of methods and object

Methods + Actions

Method: is it a procedure associated with a message and an object

Actions

Object: it is a element or instance of a class, object have the behaviors of their class

Example : laptop / marker

6.What is the latest version of eclispe and which version you are using in your project?

Ans : Latest version of eclipse – 4.20.0 (Released on : 16 June 2021)

Eclipse version using for our Project – Eclipse Oxygen 3a (Release in : march 2018)

7.Difference between c++ and java?

Ans : C++ : procedural language Java : Object Oriented Language

* - user based memory management - Memory management (JVM)
* - not portable - portable
* - platform dependent - platform independent

8.Features of java?

Ans :

- Open Source : java is Open Source language where original source code is made freely available and may be redistributed and modified.

- Platform Independent : Java is Platform independent language so we use this on any Operating system (example : Linux, Windows, etc.)

- Multithreading : Java provides Multithreading facility where Multiple tasks run parallelly.

- Portable: Write anywhere and run anywhere.

- More Secure

9.What type of tool you are using in your project to execute java?

Ans: 1. JDK (Java Development Kit)

2. Eclipse Oxygen 3a

10.Difference between class, method, object?

Ans : class method object

- method + object -expose behavior of Object - instance of class

- logical entity -depends on class - Physical entity

- declare with “class” - - declare with “new”

- does not get memory - get memory

when create

11.Where object stores?

- Object are stored in memory (Memory allocation)

- in other hand in java all objects are dynamically allocated on Heap

12.How to access one class method in to another package in different package?

Ans: When you want to access one class method into another class present in different package

- then we need to import class (method must be public)

- syntax for import : import Package\_name.ClassName;

13.What is encapsulation?

Ans : Encapsulation means wrapping code and data together into single unit

Encapsulation also used to hide the values or state of structured data object inside a class

14.Coding standard to create project, class, method, package and obj and which version you are using in your project?

Ans : There are 2 Types of coding standards : 1. Pascal Notation – Each word of first letter should be capital

2. Camel Notation – first word of first letter is small remaining each word of first letter should be capital.

In our project we use both the standards but mostly we used **PASCAL NOTATION**

**QUESTIONS(Programs):**

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**QUESTION 1:**

**------------**

Project : EmployeeDetails

Package : org.emp

Class : Employee

Methods : empId(),empName(),empDob(),empPhone(),empEmail(),empAddress()

Description: Create an object for employee class and call above methods also follow the all coding standards.

ANS: **package** org.emp;

**public** **class** Employee {

**private** **void** empId() {

System.***out***.println(1250);

}

**private** **void** empName() {

// **TODO** Auto-generated method stub

System.***out***.println("Shubham Udavant");

}

**private** **void** empDob() {

// **TODO** Auto-generated method stub

System.***out***.println("10.02.1999");

}

**private** **void** empPhone() {

// **TODO** Auto-generated method stub

System.***out***.println("9156756946");

}

**private** **void** empEmail() {

// **TODO** Auto-generated method stub

System.***out***.println("shubhamudavant19@gmail.com");

}

**private** **void** empAddress() {

// **TODO** Auto-generated method stub

System.***out***.println("Nashik");

}

**public** **static** **void** main(String[] args) {

Employee emp = **new** Employee();

emp.empName();

emp.empDob();

emp.empPhone();

emp.empEmail();

emp.empAddress();

}

}

**QUESTION 2:**

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Project : LanguageDetails

Package : org.lang

Class : LanguageInfo

Methods : tamilLanguage(),englishLanguage(),hindiLanguage()

ANS: **package** org.lang;

**public** **class** LanguageInfo {

**public** **void** tamilLanguage() {

// **TODO** Auto-generated method stub

System.***out***.println("TAMILIAN");

}

**public** **void** englishLanguage() {

// **TODO** Auto-generated method stub

System.***out***.println("ENGLISH");

}

**public** **void** hindiLanguage() {

// **TODO** Auto-generated method stub

System.***out***.println("HINDI");

}

}

Class : StateDetails

Methods : southIndia(),northIndia()

Description: Create an object for LanguageInfo and StateDetails inside the StateDetails class and call both classes methods also follow the all coding standards.

ANS: **package** org.lang;

**public** **class** StateDetails {

**private** **void** southIndia() {

// **TODO** Auto-generated method stub

System.***out***.println("SOUTH INDIAN");

}

**private** **void** northIndia() {

// **TODO** Auto-generated method stub

System.***out***.println("NOTH INDIAN");

}

**public** **static** **void** main(String[] args) {

StateDetails sd = **new** StateDetails();

sd.southIndia();

sd.northIndia();

LanguageInfo li = **new** LanguageInfo();

li.tamilLanguage();

li.englishLanguage();

li.hindiLanguage();

}

}

**QUESTION 3:**

**----------**

Project :EmployeeInformation

Package :org.emp

Class :Employee Methods :empName()

ANS: package org.emp;

import org.client.Client;

import org.company.\*;

import org.project.Project;

public class Employee {

public void empName() {

// TODO Auto-generated method stub

System.out.println("RAMESH");

}

public static void main(String[] args) {

Employee emp = new Employee();

emp.empName();

Company cp = new Company();

cp.companyName();

Client ct = new Client();

ct.clientName();

Project pj = new Project();

pj.projectName();

}

}

Package :org.company

Class :Company

Methods :companyName()

ANS: **package** org.company;

**public** **class** Company {

**public** **void** companyName() {

// **TODO** Auto-generated method stub

System.***out***.println("Zensar");

}

}

Package :org.client

Class :Client

Methods :clientName()

ANS: **package** org.client;

**public** **class** Client {

**public** **void** clientName() {

// **TODO** Auto-generated method stub

System.***out***.println("shubham");

}

}

Package :org.project

Class :Project

Methods :projectName()

Description: Create an object for all 4 classes inside the Employee class and call all classes methods also

follow the all coding standards.

ANS:

**package** org.project;

**public** **class** Project {

**public** **void** projectName() {

// **TODO** Auto-generated method stub

System.***out***.println("Thincking");

}

}

**QUESTION 4:**

**--------------**

Project :NetworkInformation

Package :org.network

Class :Wifi

Methods :wifiName()

ANS:

**package** org.network;

**public** **class** Wifi {

**private** **void** wifiName() {

// **TODO** Auto-generated method stub

System.***out***.println("Wifi's Name");

}

**public** **static** **void** main(String[] args) {

Wifi w = **new** Wifi();

w.wifiName();

MobileData md = **new** MobileData();

md.dataName();

Lan l = **new** Lan();

l.lanName();

Wireless wl = **new** Wireless();

wl.modamName();

}

}

Class :MobileData

Methods :dataName()

ANS: **package** org.network;

**public** **class** MobileData {

**public** **void** dataName() {

// **TODO** Auto-generated method stub

System.***out***.println("DATA NAME");

}

}

Class :Lan

Methods :lanName()

ANS:

**package** org.network;

**public** **class** Lan {

**public** **void** lanName() {

// **TODO** Auto-generated method stub

System.***out***.println("LAN NAME");

}

}

Class :Wireless

Methods :modamName()

ANS: **package** org.network;

**public** **class** Wireless {

**public** **void** modamName() {

// **TODO** Auto-generated method stub

System.***out***.println("MODEL NAME");

}

}

Description: Create an object for all 4 classes inside the Wifi class and call all classes methods also follow the all coding standards

**QUESTION 5:**

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Project :VehicleInformation

Package :org.allvehicle

Class :Vehicle

Methods :VehicleNecessery()

ANS: package org.allvehicle;

import org.fourwheeler.FourWheeler;

import org.threewheeler.ThreeWheeler;

import org.twowheeler.\*;

public class Vehicle {

public void VehicleNecessery() {

// TODO Auto-generated method stub

System.out.println("NO VEHICLE NO ENTRY");

}

public static void main(String[] args) {

Vehicle v = new Vehicle();

v.VehicleNecessery();

TwoWheller tw = new TwoWheller();

tw.bike();

tw.cycle();

ThreeWheeler th = new ThreeWheeler();

th.Auto();

FourWheeler fw = new FourWheeler();

fw.bus();

fw.car();

fw.lorry();

}

}

Package :org.twowheeler

Class :TwoWheller

Methods :bike(),cycle()

ANS: **package** org.twowheeler;

**public** **class** TwoWheller {

**public** **void** bike() {

// **TODO** Auto-generated method stub

System.***out***.println("SHRE BIKE");

}

**public** **void** cycle() {

// **TODO** Auto-generated method stub

System.***out***.println("USE CYCLE FOR HEALTHY FITNESS");

}

}

Package :org.threewheeler

Class :ThreeWheeler

Methods :Auto()

ANS:

**package** org.threewheeler;

**public** **class** ThreeWheeler {

**public** **void** Auto() {

// **TODO** Auto-generated method stub

System.***out***.println("THREEWHEELER OWNER");

}

}

Package :org.fourwheeler

Class :FourWheeler

Methods :car(),bus(),lorry()

ANS: **package** org.fourwheeler;

**public** **class** FourWheeler {

**public** **void** car() {

// **TODO** Auto-generated method stub

System.***out***.println("CAR \_ BUSINESSMAN");

}

**public** **void** bus() {

// **TODO** Auto-generated method stub

System.***out***.println("BUS \_ STUDENT");

}

**public** **void** lorry() {

// **TODO** Auto-generated method stub

System.***out***.println("lorry vehicle");

}

}

Description: Create an object for all 4 classes inside the Vehicle class and call all classes methods also follow the all coding standards.