DAY 3

/\*

class Test{

// Constructor

Test() {

}

}

Test ob = new Test(); //Creates object

It will implicitly invoke Test constructor and constructor will create object.

Tasks of Constructor:

1) Create object

2) Initialize the object

Test ob = new Test(); //Creates object

new Test() -> invokes the constructor

Test ob -> Reference Variable

Test obj = new Test();

Test ob1 = obj;

\*/

/\*

class Test {

int a;

void show() {

System.out.println("Test Class Method " + a);

}

public static void main(String[] args) {

new Test().show(); //Anonymous Object - Use it only once

}

}

Note: When user doesn't mention any constructor, only then JVM places a default constructor

in the class.

\*/

/\*

class Dummy {

int a;

void show() {

System.out.println("Dummy Class Method " + a);

}

public static void main(String[] args) {

Dummy ob = new Dummy();

ob.a = 20;

ob.show();

}

}

\*/

/\*

class Dummy {

int a;

public Dummy() {}

void show() {

System.out.println("Dummy Class Method " + a);

}

public static void main(String[] args) {

Dummy ob = new Dummy();

ob.show();

}

}

\*/

/\*

class Dummy {

int a;

public Dummy() {

a = 20; // Initialization of data member

}

void show() {

System.out.println("Dummy Class Method " + a);

}

public static void main(String[] args) {

Dummy ob = new Dummy();

ob.show();

ob.a = 35;

ob.show();

}

}

\*/

/\*

class Dummy {

int a;

public Dummy() {

a = 20; // Initialization of data member

}

void show() {

System.out.println("Dummy Class Method " + a);

}

public static void main(String[] args) {

Dummy ob1 = new Dummy();

Dummy ob2 = new Dummy();

ob1.show();

ob2.show();

}

}

\*/

// Cab Fare Calculation Project

/\*

import java.util.Scanner;

class Cab {

int fare;

public Cab() {

fare = 40;

}

void calculateFare() {

int travel;

Scanner sc = new Scanner(System.in);

System.out.print("Enter the distance travelled by User: ");

travel = sc.nextInt();

fare += travel \* 10;

}

void showFare() {

System.out.println("Total Fare: " + fare);

}

}

class RideCab {

void putOTP() {

System.out.println("Ride Started...");

Cab ob = new Cab();

System.out.println("Ride Ended...");

ob.calculateFare();

ob.showFare();

}

public static void main(String[] args) {

RideCab rc = new RideCab();

rc.putOTP();

}

}

\*/

/\*

import java.util.Scanner;

class Cab {

int fare;

public Cab() {

fare = 40;

}

public Cab(int amt) {

fare = amt;

}

void calculateFare() {

int travel;

Scanner sc = new Scanner(System.in);

System.out.print("Enter the distance travelled by User: ");

travel = sc.nextInt();

fare += travel \* 10;

}

void showFare() {

System.out.println("Total Fare: " + fare);

}

}

class RideCab {

void putOTP(int d) {

System.out.println("Ride Started...");

if(d <= 5) {

Cab ob = new Cab();

System.out.println("Ride Ended...");

ob.calculateFare();

ob.showFare();

}

else {

Cab ob = new Cab(40 + (d - 5) \* 10);

System.out.println("Ride Ended...");

ob.calculateFare();

ob.showFare();

}

}

public static void main(String[] args) {

int distance;

Scanner sc = new Scanner(System.in);

System.out.print("Enter the distance of the Cab from User: ");

distance = sc.nextInt();

RideCab rc = new RideCab();

rc.putOTP(distance);

}

}

\*/

/\*

class Test {

int data;

public Test() { }

public Test(int val) {

data = val;

}

void show() {

System.out.println("Data: " + data);

}

}

class TestDrive {

public static void main(String[] args) {

// Test ob = new Test();

// ob.show();

Test ob = new Test(35);

ob.show();

}

}

\*/

/\*

class Test {

int data;

public Test() { }

public Test(int data) {

this.data = data; //this returns reference of current object

}

void show() {

System.out.println("Data: " + data);

}

}

class TestDrive {

public static void main(String[] args) {

Test ob = new Test(35);

ob.show();

}

}

\*/

/\*

import java.util.Scanner;

class Dummy {

int data;

void update() {

Scanner sc = new Scanner(System.in);

System.out.print("Enter data: ");

data = sc.nextInt();

}

void show() {

if(data < 25) {

Scanner sc = new Scanner(System.in);

System.out.print("Data is less than 25, please re-enter: ");

data = sc.nextInt();

System.out.print("Data: " + data);

}

else {

System.out.print("Data: " + data);

}

}

public static void main(String[] args) {

Dummy ob = new Dummy();

ob.update();

ob.show();

}

}

\*/

import java.util.Scanner;

class Dummy {

int data;

Scanner sc = new Scanner(System.in);

void update() {

System.out.print("Enter data: ");

data = sc.nextInt();

}

static void show() {

if(data < 25) {

System.out.print("Data is less than 25, please re-enter: ");

data = sc.nextInt();

System.out.print("Data: " + data);

}

else {

System.out.print("Data: " + data);

}

}

public static void main(String[] args) {

Dummy ob = new Dummy();

ob.update();

ob.show();

}

}