# **Day 7 - 6 June 2025**

**Document Name:**Day 7 - hmuvvala@ - Hari Gopal Muvvala

Task001:

Wap to display greetings

public class Main {

public static void main(String[] args) {

// Task 001: Display greetings

System.out.println("Hello! Welcome to Java Programming.");

}

}

Task002:

Wap to create a add method and call the method 3 times ..

public class Main {

public static void main(String[] args) {

// Task 002: Call add method 3 times

add();

add();

add();

}

public static void add() {

int a = 10, b = 20;

int sum = a + b;

System.out.println("Sum is: " + sum);

}

}

Sum is: 30

Sum is: 30

Sum is: 30

Task003

Write a Program in Java to Add two Numbers.

Input: 2 3

Output: 5

import java.util.Scanner;

public class main {

public static void main (String [] args) {

// Task003: Add two numbers from user input

Scanner sc = new Scanner(System.in);

System.out.println("Enter first number: ");

int a = sc.nextInt();

System.out.println("Enter second number: ");

int b = sc.nextInt();

int sum = a+b;

System.out.println("Sum is: " + sum);

}

}

Enter first number:

2

Enter second number:

3

Sum is: 5

Task004

Write a Program to Swap Two Numbers

Input: a=2 b=5

Output: a=5 b=2

public class Main {

public static void main(String[] args){

// Task004: Swap two numbers

int a = 2;

int b = 5;

System.out.println ("Before swap:");

System.out.println("a = " + a);

System.out.println("b = " + b);

// Swapping using temp variable

int temp = a;

a = b;

b = temp;

System.out.println("After swap:");

System.out.println("a = " + a);

System.out.println("b = " + b);

}

}

Before swap:

a = 2

b = 5

After swap:

a = 5

b = 2

—-------------

Task005

Create a code in which you have 4 methods add, subtract, multiply and divide (return type int) with a main [method..to](http://method..to) call all the other methods

public class Task005 {

public static void main(String[] args){

//Task005: Call methods for 4

System.out.println("Main started");

System.out.println();

System.out.println("Sum of 2 numbers is: " + add());

System.out.println("Diff of 2 numbers is: " + subtract());

System.out.println("Product of 2 numbers is: " + multiply());

System.out.println("Division of 2 numbers is: " + divide());

System.out.println("Main ended");

}

public static int add(){

int a = 10, b = 5;

return a + b;

}

public static int subtract(){

int a = 10, b = 5;

return a - b;

}

public static int multiply(){

int a = 10, b = 5;

return a \* b;

}

public static int divide(){

int a = 10, b = 5;

return a / b;

}

}

—--------

Task 6:

public class Task006 {

public static void main(String[] args){

// Task006: check if a greater than b by using ternary operator

int a = 4;

int b = 5;

String result = (a > b) ? "a is greater than b" : "b is greater than a";

System.out.println(result);

}

}

—----------

Task 7:

import java.util.Scanner;

public class Task007 {

public static void main(String[] args) {

// Task007: take input for ID and pwd and print masked output

Scanner sc = new Scanner(System.in);

System.out.print("Enter login ID: ");

String id = sc.nextLine();

System.out.println("Enter password: ");

String pwd = sc.nextLine();

System.out.println("Hi,");

System.out.println("Your login ID is " + id);

System.out.println("And your pwd is \*\*\*\*\*\*\*\*\*\*");

}

}

—-------------

Task 8:

class Customer{

void accept(){

System.out.println("accept customer called");

}

void display(){

System.out.println("display customer called");

}

}

public class Task008 {

public static void main(String[] args) {

// Task008: Use object to call methods from customer class

Customer cobj = new Customer();

cobj.accept();

cobj.display();

}

}

—-----------------

Task 9:

public class Task009 {

public static void main(String[] args) {

// Task009: find greater of 2 numbers using if-else

int num1 = 45;

int num2 = 40;

if (num1 > num2) {

System.out.println("num1 is greater");

} else {

System.out.println("num2 is greater");

}

}

}

—----------------

Task 10:

public class Task010 {

public static void main(String[] args) {

// Task010: Find greatest of 3 numbers using if-else if

int num1 = 55;

int num2 = 40;

int num3 = 45;

if (num1 > num2 && num1 > num3) {

System.out.println("num1 is greatest");

} else if (num2 > num1 && num2 > num3) {

System.out.println("num2 is greatest");

} else {

System.out.println("num3 is greatest");

}

}

}

—------------------

Task 11:

import java.util.Scanner;

public class Task011 {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

// Task011: Check weekdays using switch

System.out.println("Enter a number (1 to 7): ");

int day = sc.nextInt();

switch (day){

case 1:

System.out.println("Sunday");

break;

case 2:

System.out.println("Monday");

break;

case 3:

System.out.println("Tuesday");

break;

case 4:

System.out.println("Wednesday");

break;

case 5:

System.out.println("Thursday");

break;

case 6:

System.out.println("Friday");

break;

case 7:

System.out.println("Saturday");

break;

default:

System.out.println("Invalid input");

}

sc.close();

}

}

—------------

Task 12:

Dowhile

import java.util.Scanner;

public class Task012\_dowhile {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

int count = 0;

String loginid,pwd;

do {

System.out.println("You have logged in for " + count + " times");

System.out.println("Enter login ID: ");

loginid = sc.nextLine();

System.out.println("Enter pwd: ");

pwd = sc.nextLine();

count++;

} while (loginid.equals("hmuvvala") && pwd.equals("root@123"));

System.out.println("Invalid credentials");

sc.close();

}

}

While

import java.util.Scanner;

public class Task012\_while {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

int count = 0;

System.out.println("Enter login ID: ");

String loginid = sc.nextLine();

System.out.println("Enter pwd: ");

String pwd = sc.nextLine();

while (loginid.equals("hmuvvala") && pwd.equals("root@123")){

count++;

System.out.println("You have logged in for " + count + " times");

System.out.println("Enter login ID: ");

loginid = sc.nextLine();

System.out.println("Enter pwd: ");

pwd = sc.nextLine();

}

System.out.println("Invalid credentials");

sc.close();

}

}

—-----------

Task 13:

public class Task013 {

public static void main(String[] args) {

// Task013: Print numbers 1 to 10, skipping 7 and 5

for (int i = 10; i >= 1; i--){

if (i == 7 || i == 5){

continue;

}

System.out.println(i);

}

}

}

—-----------

Task 14:

public class Task014 {

public static void main(String[] args) {

char[] arr = {'a', 'e', 'i', 'i', 'o', 'u'};

System.out.println(arr);

String[] names = {"Meena", "Tina", "Leena", "Heena"};

System.out.println(names[0]);

names[1] = "Reena";

System.out.println(names[1]);

System.out.println(names.length);

System.out.println(names[4]); //This will throw ArrayIndexOutofBoundsException (Intentional)

}

}

—-----------

Task 15:

public class Task015 {

public static void main(String[] args) {

// String is immutable (cannot be changed)

String name = "Meher is a trainer";

name = "Hello"; // Reassignment creates a string object

System.out.println(name);

// Variables are mutable (can be changed)

// creating strings using diff methods

String str1 = "Java Strings";

String str2 = new String(str1);

String str3 = new String("are easy to learn");

char[] ch = {'S', 't', 'r', 'i', 'n', 'g'};

String str4 = new String(ch); // String from char array

// Print all forms of strings

System.out.println(str1 + "\n" + str2 + "\n" + str3 + "\n" + str4);

}

}

—---------

Task 16:

enum color{

red, blue, green, yellow

}

enum weekdays{

sunday, monday, tuesday

}

public class Task016 {

public static void main(String[] args) {

color c1 = color.yellow;

System.out.println(c1);

weekdays c2 = weekdays.tuesday;

System.out.println(c2);

}

}

—---------------

Task 17:

public class Task017 {

public static void main(String[] args) {

Person myObj = new Person();

//myObj = new Person();

myObj.setName("John"); //Initial Error: name has private access; Next changed to setName; set value using setter

//System.out.println(myObj.name);

System.out.println(myObj.getName()); //Error: name is not accessible; after change getName is accessible; Get value using Getter

//After the error used setter and getter

}

}

—---------------

Task 18:

public class Task018 {

public static void main(String[] args) {

Person myObj = new Person();

myObj.setName("John");

System.out.println(myObj.getName());

}

}

—---------

Task 19:

public class Task019 {

public static void main(String[] args) {

for (Element e : Element.values()){

System.out.println("Element: " + e);

System.out.println("Label: " + e.getLabel());

System.out.println("Atomic Number: " + e.getAtomicNumber());

System.out.println("Atomic weight: " + e.getAtomicWeight());

System.out.println("----------------------");

}

}

}

—---------

Task 20:

public class Task020 {

public static void main(String[] args) {

char[] name = {'H', 'a', 'r', 'i'};

System.out.println(name);

int n = name.length;

System.out.println("There are " + n + " letters in my name");

// Display each character

for (int i = 0; i < n; i++){

System.out.println(name[i] + " ");

}

}

}

—------------

Element.java

ublic enum Element{

H("Hydrogen", 1, 1.008f),

HE("Helium", 2, 4.0026f),

NE("Neon", 10, 20.180f);

private final String label;

private final int atomicNumber;

private final float atomicWeight;

Element(String label, int atomicNumber, float atomicWeight){

this.label = label;

this.atomicNumber = atomicNumber;

this.atomicWeight = atomicWeight;

}

public String getLabel(){

return label;

}

public int getAtomicNumber(){

return atomicNumber;

}

public float getAtomicWeight(){

return atomicWeight;

}

}

—--------------

Person.java

public class Person {

private String name;

// Getter

public String getName(){

return name;

}

//Setter

public void setName (String newName){

this.name = newName;

}

}

—-------------------

My GIT:

https://github.com/hari-muvvala/Atlas/tree/master/src