



# Assignment 01

## Problem Statement:

Calculate Gross salary of an employee given his basic pay (take as input from user).

- Let HRA be 10 % of basic pay
- TA be 5% of basic pay.
- Let employee pay professional tax as 2% of total salary.
- Calculate net salary payable after deductions

**Skills : Core JAVA / Python Basics**

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# Assignment 02

## Problem Statement:

Accept an object mass in kilograms and velocity in meters per second and display its momentum.

- Momentum is calculated as  $e=mc^2$  where
- $m$  is the mass of the object and
- $c$  is its velocity

**Skills : Core JAVA / Python Basics**

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# Assignment 03

## Problem Statement:

Accept N numbers from user. Compute and display

- maximum in list,
- minimum in list, sum
- average of numbers

**Skills : Core JAVA / Python Basics**

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# Assignment 04

## Problem Statement:

Accept student's five courses marks and compute his/her result. Student is passing if he/she scores marks equal to and above 40 in each course. If student scores aggregate greater than 75%, then the grade is distinction. If aggregate is  $60 \geq$  and  $=$  and  $=$  and

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# Assignment 05

## Problem Statement:

To check whether input number is Armstrong number or not.  
An Armstrong number is an integer with three digits such that the sum of the cubes of its digits is equal to the number itself.  
Ex. 371.

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# Assignment 06

## Problem Statement:

To simulate simple calculator that performs basic tasks such as addition, subtraction, multiplication and division with special operations like computing  $xy$  and  $x!$

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# Assignment 07

## Problem Statement:

To accept the number and Compute a) square root of number, b) Square of number, c) Cube of number d) check for prime, d) factorial of number e) prime factors

**Skills : Core JAVA / Python Basics**

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# Assignment 08

## Problem Statement:

To accept two numbers from user and compute smallest divisor and Greatest Common Divisor of these two numbers.

**Also Make this a Web Project.**

**Skills : Core JAVA / Python Basics**

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# Assignment 09

## Problem Statement:

Write a program that accepts a string from user and perform following string operations- i. Calculate length of string ii. String reversal iii. Equality check of two strings iii. Check palindrome ii. Check substring

**Skills : Core JAVA / Python Basics**

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# Assignment 10

## Problem Statement:

To copy contents of one file to other. While copying

- a) all full stops are to be replaced with commas
- b) lower case are to be replaced with upper case
- c) upper case are to be replaced with lower case.

**Skills : Core JAVA / Python Basics**

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# Assignment 11

## Problem Statement:

To count total characters in file, total words in file, total lines in file and frequency of given word in file.

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# Assignment 12

## Problem Statement:

Create class EMPLOYEE for storing details (Name, Designation, gender, Date of Joining and Salary). Define function members to compute

- a) total number of employees in an organization
- b) count of male and female employee
- c) Employee with salary more than 10,000
- d) Employee with designation "Asst Manager"

**Skills : Core JAVA / Python Basics**

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# Assignment 13

## Mini Project

Create class STORE to keep track of Products ( Product Code, Name and price). Display menu of all products to user. Generate bill as per order.

**Make this a Web Project.**

**Skills : Core JAVA / Python Basics**

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