Level 1 Practice Programs

1. Write a program to find the age of Harry if the birth year is 2000. Assume the Current Year is 2024

I/P => NONE

O/P => Harry's age in 2024 is \_\_\_

1. Sam’s mark in Maths is 94, Physics is 95 and Chemistry is 96 out of 100. Find the average percent mark in PCM

I/P => NONE

O/P => Sam’s average mark in PCM is \_\_\_

1. Create a program to convert the distance of 10.8 kilometers to miles.

Hint: 1 km = 1.6 miles

I/P => NONE

O/P => The distance  \_\_\_ km in miles is \_\_\_

1. Create a program to calculate the profit and loss in number and percentage based on the cost price of INR 129 and the selling price of INR 191.

**Hint =>**

1. Use a single print statement to display multiline text and variables.
2. Profit = selling price - cost price
3. Profit Percentage = profit / cost price \* 100

**I/P =>** NONE

**O/P =>**

The Cost Price is INR \_\_\_ and Selling Price is INR \_\_\_

The Profit is INR \_\_\_ and the Profit Percentage is \_\_\_

1. Suppose you have to divide 14 pens among 3 students equally. Write a program to find how many pens each student will get if the pens must be divided equally. Also, find the remaining non-distributed pens.

**Hint =>**

1. Use Modulus Operator (%) to find the reminder.
2. Use Division Operator to find the Quantity of pens

**I/P =>** NONE

**O/P =>** The Pen Per Student is \_\_\_ and the remaining pen not distributed is \_\_\_

1. The University is charging the student a fee of INR 125000 for the course. The University is willing to offer a discount of 10%. Write a program to find the discounted amount and discounted price the student will pay for the course.

**Hint =>**

1. Create a variable named fee and assign 125000 to it.
2. Create another variable discountPercent and assign 10 to it.
3. Compute discount and assign it to the discount variable.
4. Compute and print the fee you have to pay by subtracting the discount from the fee.

**O/P =>** The discount amount is INR \_\_\_ and final discounted fee is INR \_\_\_

1. Write a Program to compute the volume of Earth in km^3 and miles^3

**Hint =>** Volume of a Sphere is (4/3) \* pi \* r^3 and radius of earth is 6378 km

**O/P =>** The volume of earth in cubic kilometers is \_\_\_\_ and cubic miles is \_\_\_\_

1. Create a program to convert distance in kilometers to miles.

**Hint =>**

1. Create a variable km and assign type as double as in double km;
2. Create Scanner Object to take user input from Standard Input that is the Keyboard as in Scanner input = new Scanner(System.in);
3. Use Scanner Object to take user input for km as in km = input.nextInt();
4. Use 1 mile = 1.6 km formulae to calculate miles and show the output

**I/P =>** km

**O/P =>** The total miles is \_\_\_ mile for the given \_\_\_ km

1. Write a new program similar to the program # 6 but take user input for Student Fee and University Discount

**Hint =>**

1. Create a variable named fee and take user input for fee.
2. Create another variable discountPercent and take user input.
3. Compute the discount and assign it to the discount variable.
4. Compute and print the fee you have to pay by subtracting the discount from the fee.

**I/P =>** fee, discountPrecent

**O/P =>** The discount amount is INR \_\_\_ and final discounted fee is INR \_\_\_

1. Write a program that takes your height in centimeters and converts it into feet and inches

**Hint =>** 1 foot = 12 inches and 1 inch = 2.54 cm

**I/P =>** height

**O/P =>** Your Height in cm is \_\_\_ while in feet is \_\_\_ and inches is \_\_\_