Java Programming: Practical 4

**Q1 – Write a Java program for each of the following. Declare suitable Variables, allow the user to input Values from the keyboard, perform the necessary calculations and display the results on screen.**

1. A program that will allow the user to input two integer Values and will display the sum of both Values.
2. A program that will allow the user to input the hours worked by an employee and the rate of pay and will calculate and display the wages due.
3. A program that will ask the user to enter the length of a film in hours and minutes and will display the film duration in minutes.

**Q2 - Write a Java program that reads an integer between 0 and 1000 and adds all the digits in the integer.**

*Test Data:*  
Input an integer between 0 and 1000: 565

Sum of the digits : 16

**Q3 – Write a Program, which when run will prompt the user to enter their current age in *years* and *months*, *e.g. 23 Years and 11 Months Old*, and which will work out how old they are in *days*. For simplicity, take each year as containing 365 days and each month as containing 30 days.**

**Q4 – Write a Program that will accept an amount in *euro* and which will convert the amount entered to *GBP* using the following rate:**

**1.00 Euro = 0.88 GBP**

**Q5 – Write a Program that will prompt the user to enter the price of three products in a sale where a discount of 10% is applied. Display the gross amount of the 3 items, *i.e. the total price of all items combined before discount has been applied*, the discount earned, *i.e. 10% of the gross amount*, and the total amount due, *i.e. the gross amount less 10% of the gross amount*.**

**Q6 – Write a Program that will ask the user to enter their age (at the end of this year), as well as the current year. Given this information, calculate the year the person was born.**

* Year Born = Current Year – Age At End Of Current Year

**Q7 – Write a Program that will ask the user to enter their height in inches, and which will then calculate and display their height in feet and inches. Note that there are 12 inches in a foot.**

* **HINT:** Use the modulus operator, *i.e. %*.

**Q8 – Write a Program that will ask the user to enter the length and width of a rectangle. Given both Values, calculate the area of the rectangle, as well as the perimeter of the rectangle.**

* **AREA:** Length \* Width
* **PERIMETER:** (Length \* 2) + (Width \* 2)

**Q9 - Write a Java program to break an integer into a sequence of individual digits. [Go to the editor](https://www.w3resource.com/java-exercises/datatypes/index.php" \l "editorr)**

Test Data:  
Input six non-negative digits: 123456  
Expected Output :  
1 2 3 4 5 6

**Q10- Write a Java program to swap two variables.**

**Output :**



**Q11 - Write a Java program to print the ascii value of a given character.**

Expected Output:

The ASCII value of Z is: 90