

ESC101, Lab 2

Monday

August 3, 2008

1 Printing a pattern

Write a Java program to print the following message on screen:

One & One becomes eleven.

```
@      @  
/I\    /I\  
_!!_  _!!_
```

2 Swap four integers using a temporary variable

Take four integers — a , b , c and d . Swap their values such that in the end, a contains value of b , b contains value of c , c contains value of d and d contains the value of a . Print these new values.

e.g. Let $a = 5$, $b = 10$, $c = 15$, $d = 20$. Then after the execution, $a = 10$, $b = 15$, $c = 20$, $d = 5$.

3 Temperature conversion

Write a program called “temperature converter” which converts temperature given in one temperature scale to the other two temperature scales. For example, if temperature is given in Celsius then convert it to Fahrenheit and Kelvin scale. Repeat the same for other cases.

Formulae:

$$C = \frac{5}{9}(F - 32)$$

$$F = \frac{9}{5}C + 32$$

$$K = C + 273$$