

BE in INFORMATION TECHNOLOGY

2nd year, 2nd semester, OOS Lab

SET-1

Write a Java class "*LongestWord*" having a method *find_longest(S)* that will find out the longest word from a sentence S. Also print the length of that longest word. Use *BufferedReader* class to take the string input within the *main()* method.

Or,

Create a Java class "*Distance*" with two member variables *feet* and *inches*. Define suitable default and parameterized constructors to initialize the members. Now define 2 methods *add(A,B)* and *sub(A,B)* that take the two members *feet (A)* and *inches(B)* of a *Distance* object as parameters and perform the addition and subtraction of those 2 objects. Example given below:

3ft 10inch + 2ft 6inch = 6ft 4inch and 4ft 4inch - 2ft 6inch = 1 ft 10 inch

$$\begin{array}{r} 4 \\ -6 \\ \hline -2 + 10 \\ \hline = 8 \end{array}$$

$$\begin{array}{r} 4 \quad 4 \\ -2 \quad 6 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 4 \\ -6 \\ \hline -2 + 10 = 8 \end{array}$$

$$\begin{array}{r} 4 \\ -6 \\ \hline -2 + 10 = 8 \end{array}$$

$$\begin{array}{r} 3 \quad 4 \quad 4 \\ -2 \quad 6 \\ \hline 1 \quad 8 \end{array}$$

$$\begin{array}{r} 2 \\ -9 \\ \hline -7 + 10 = 3 \end{array}$$

Interfacing
→ int D
int feet
int inches
will print a variable present in A
C extends A