CIS 504 – 90

Principles of Programming Languages

Assignment 2

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1- Formulating requirements: Moe has recently moved to London to study. Moe loves to buy fresh cut cheese from the local deli shop. Where he used to live cheese and other deli products are measured using the metric system and priced by kilogram, while in London cheese is sold by the pound. To solve his problem he wanted to create an applicaiton for his smart phone where he could quickly convert from pounds to kilograms to facilitate buying goodies from the deli. Moe quickly figures out that every 1 Kilogram converts to about 2.2 lbs. Now that he understands his problem and knows what is required he can move on to developing the specifications.

step 1 Enter Pound amount x

step 2 convert pound to kg = x multiple .45

step 3 display result

Specifications development: Kilogram to pound converter program specifications: Develop a conversion function which will convert from pounds to kilograms. The user will invoke the function or will be prompted to input the weight in pounds to convert from pounds to kilograms. The output will then be displayed in kilograms.

3- Design creation: Next Moe writes his algorithm using natural language, plain English as follows

Program will convert Pounds to kgs

Display Output

Kg = pounds \*4545

Enter pounds