CSI 31

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INTRO TO PYTHON

1. (A) Design Specification for Volume of box.py

DESIGN

The tasks that main will perform:

(a) Print an introductory describing the program to the user.

(b) Prompt the user for variables: Length, Width and Height.

(c) Compute the volume of the box by using the formula: V= L\*W\*H.

(d) Print the volume of the Box.

**Input**

The program will ask the user to enter the numbers/variables to be calculated (Length, Width and Height)

Please enter the Width of the box:

Please enter the Length of the box:

Please enter the Height of the box:

**Processing**

The program will do the calculation as follows:

V= Height \*Width\* Length

**Output**

The program will then print the results to screen as follows:

The volume of the box with sides of

Width=x

Length=x

Height=x

Volume would be = x

NB: x will vary according to user input

1. (A) Design specification for finding the average of n numbers

DESIGN

The tasks that main will perform:

(a) Print an introductory describing the program to the user.

(b) Prompt the user for the amount variables to be average.

(c) Prompt the user to enter the variables they need to find the average for.

(c) Compute the average: n+n+n…/n

(d) Print the average of the given numbers.

**Input**

The program will ask the user to enter the numbers/variables to calculate the average (n)

Please enter the amount of number you would like to find the average of:

(If amount = x)

This statement will print according to how much number the user would like to find the average of:-

Enter the number to find the average of:

**Processing**

The program will do the calculation as follows:

average= n + n…..x/x

**Output**

The program will then print the results to screen as follows:

The average of the numbers are: