

CPE100 Computer Programming for Engineers

Objective

This exercise will allow you to practice coding C language, one of the most important foundation computer languages, in Variable and Data type topics. This exercise focus on gaining basic knowledge of how if-else statement and Data Type in C works for further coding in a later class

Instructions

1) Write C program to “Covert Celsius to Fahrenheit”

Input : -10

Output : 14

Input : 27.5

Output : 81.5

2) Write C program to "Check whether a following number can create Triangle or not."

Input : 3 4 5

Output : Yes

Input : 17 5 11

Output : No

Hint : The sum of the lengths of any two sides of a triangle is always greater than the length of the third side

3) Write C program to "Output Number of bag you need to carry item by first number is total weight and second number is max weight bag can hold"

Input : 130 50

Output : 3

Input : 10234 100

Output : 103

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4) Write C program to “Output Quotient and Remainder from 2 Input number”

Input : 20 4 Output : 5 0

input : 32 5 Output : 6 2

5) Write C program to “Output sum of angles inside any polygon ”

Input : 4 Output : 360

Input : 7 Output : 900

6) Write C program to “ Output the height of building, Where you drop the rock to the ground by specifying a time it hit the ground”

*** Assume $g = 10$ and initial velocity = 0

*** Hint : $v = u + at$, $s = (u+v)/2 * t$

Input : 5 Output : 125

Input : 8 Output : 320

6) Write C program to “ Check whether this character are upper case or lower case or number”

*** Hint : ASCII code

Input : A Output : Upper

Input : a Output : Lower

Input : 9 Output : Number