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Date.....
Page.....

DSA LAB - 2

Algorithm

1) A. Step 1 : Start
Step 2 : Initialize variable amount
Step 3 : READ amount
Step 4 : Print amount - (0.10 * amount) - (0.03 * amount)
- (0.02 * amount) - (0.0278 * amount) - (0.06 * amount)
Step 5 : Print / display all tax deductions (if needed)
Step 6 : Stop

2) A. Step 1 : Start
step 2 : Initialize variables fahrenheit , celsius
step 3 : READ fahrenheit
step 4 : celsius = (5/9) * (fahrenheit - 32)
step 5 : Print celsius as temperature converted from fahrenheit to celsius
step 6 : Stop

Date.....
Page.....

Theory

1) A. Step 1 : start
Step 2 : Initialize two variables num1, num2.
Step 3 : READ num1, num2.
step 4 : num1 = num1 + num2.
Step 5 : num2 = num1 - num2
Step 6 : num1 = num1 - num2
Step 7 : PRINT num1, num2.
Step 8 : Stop

2) A. Step 1 : Start
Step 2 : Initialize two variables num1, num2.
Step 3 : READ num1, num2.
Step 4 : If num1 > num2.
Print num1 is largest number
otherwise
Print num2 is largest number
step 5 : Stop.

Date.....
Page.....

3)A. Step 1 : Start
Step 2 : Initialize variable num1.
Step 3 : READ num1.
Step 4 : If num1 % 2 == 0
Print num1 is an even number.
otherwise
Print num1 is an odd number.
Step 5 : Stop.

4)A. Step 1 : Start
Step 2 : Initialize variable i, ~~and~~ Sum=0 and n.
Step 3 : READ n.
Step 4 : i=0
Step 5 : DO
Sum = Sum + i
i= i + 1
UNTILL i <= n
Step 6 : Print sum as the sum of first n natural numbers.

5) A. a) one output is required for this programming problem which is distance in miles

b) This problem have two inputs average speed and time

c)

Step 1 : Start

Step 2 : Initialize variables speed, time, distance.

Step 3 : READ speed, time

Step 4 : distance = speed * time

Step 5 : convert distance into miles

Step 6 : Print distance in miles

step 7 : Stop