

Online Embedded System Diploma mid term 1

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* Indicates required question

C codes Upload image showing the correct execution

Codes

1)c function to take a number and sum all digits?

test case 1:

* 3 points

input:123 ->output:6

test case 2:

input:4565 ->output:20

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2)c function to take an integer number and calculate it's square root?

* 3 points

test case 1:

input:4 ->output:2.000

test case 2:

input:10 ->output:3.126

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3)c function to print all prime numbers between two numbers?

* 3 points

test case :

input:n1=1,n2=20 ->output:1 2 3 5 7 11 13 17 19

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4)c function to revers digits in number?

test case 1:

* 3 points

input:2457 ->output:7542 .

test case 2:

input:1057 -

>output:7501.

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5)c function to count number of ones in binary number?

* 3 points

test case 1:

input:5 ->output: 2 --->binary of 5 is 0101 so has 2 one's

test case 2:

input:15 ->output:4.

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6)c function to return unique number in array with one loop?

* 3 points

test case 1:

input: int a[7]={4,2,5,2,5,7,4}; output:7.

test case 2:

input: int a[3]={4,2,4}; output:2.

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7)c function to sum numbers from 1 to 100(without loop)? *

3 points

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8)c function to take an array and revers its elements? test case 1:

* 3 points

input: int

a[5]={1,2,3,4,5}; output:5 4 3 2 1.

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9)c function to reverse words in string?

test case :

input: mohamed gamal. output:gamal mohamed.

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10)c function to count the max number of ones between two zeros?

test case 1:

input:14(01110)

output:3.

test case 2:

input:110(0110 1110).

output:3

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