R6
Functions Questions

Function Questions

Question 1 - Find sum of digits and complete the code in function

Example

Input

Input number: 1234

Output

Sum of digits: 10

Explanation slide

Function Question

Question 2 - Find maximum and minimum using functions

Example

Input

Input two numbers: 10
20

Output

Maximum = 20
Minimum = 10

Explanation slide

Function Question

Question 3 - Find prime numbers in given range using functions

Example

Input

Input lower limit: 10
Input upper limit: 50

Output

Prime numbers between 10-50 are: 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47

LearnYard

Explanation slide

Function Question

Question 4 - Given two integers n and r, find nCr

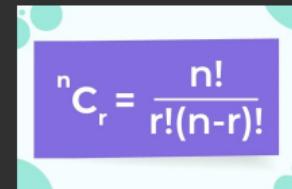$$^nC_r = \frac{n!}{r!(n-r)!}$$

Example 1:

Input: n = 3, r = 2
Output: 3
Explaination: $^3C_2 = 3$.

Example 2:

Input: n = 2, r = 4
Output: 0
Explaination: r is greater than n.

Explanation slide

Function Question

Question 5 - Given two integers find nPr.

$$^nP_r = \frac{n!}{(n-r)!}$$

Example 1:

Input: n = 2, r = 1
Output: 2
Explaination: 2!/(2-1)! = 2!/1! = (2*1)/1 = 2.

Example 2:

Input: n = 3, r = 3
Output: 6
Explaination: 3!/(3-3)! = 3!/0! = 6/1 = 6.

Explanation slide

Thank You!

Please practice more questions and examples as above !!