BVRIT HYDERABAD

College of Engineering for Women

(Approved by AICTE | Affiliated to JNTUH | Accredited by NAAC with Grade 'A' &NBA for CSE, ECE, EEE, & IT)
Bachupally, Hyderabad-090

Department of CSE(AI&ML)

Name of the Activity: Teach from SCRATCH

Faculty Name: Ms. A Naga Kalyani

Class / Semester: I CSE AI&ML

Academic Year: 2021- 2022

Subject Name: Programming for Problem Solving

Topic: Basic concepts of Programming

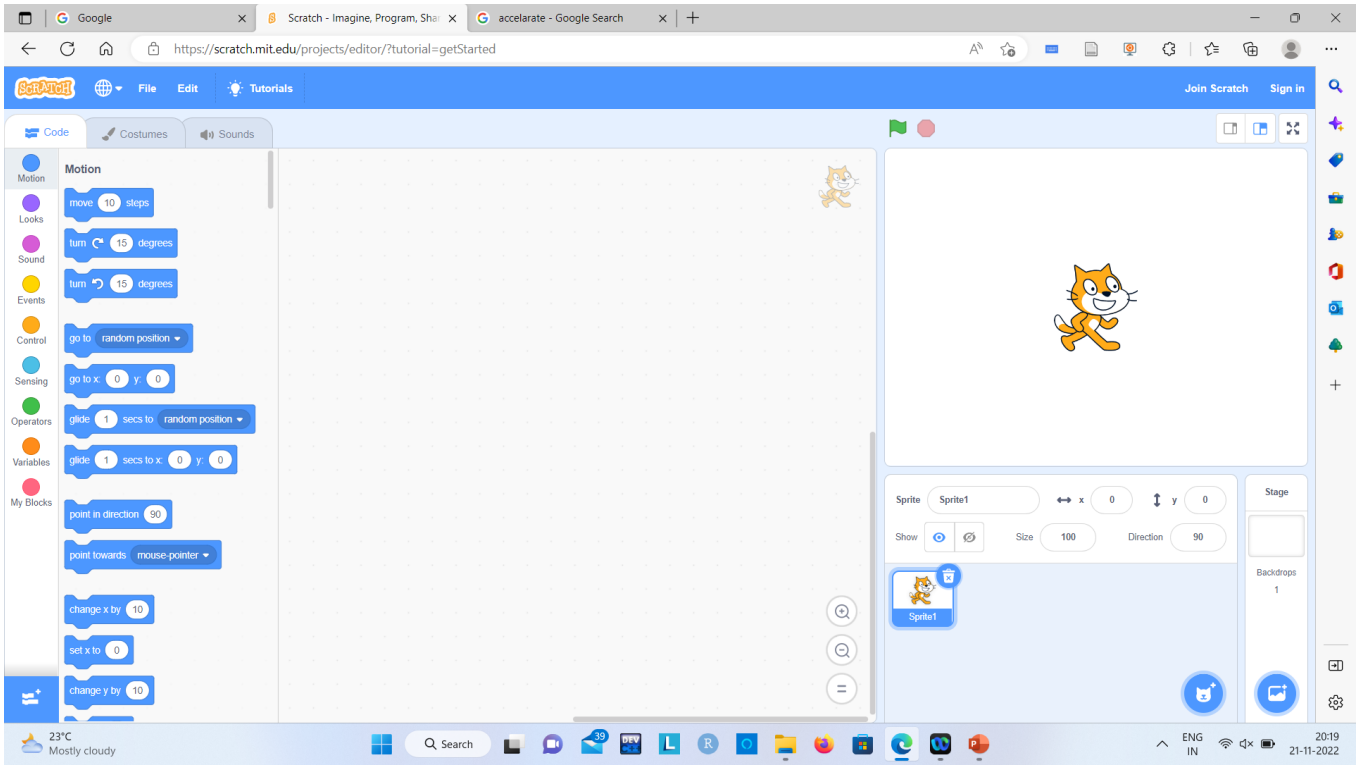
Brief Write-up (Not exceeding 200 Words)

One-way students learning to code is by picking a popular programming language and begin with no direction. This can lead to difficulty in building logic while writing a program. In order to address this , SCRATCH promotes computational thinking and problem solving skills; creative teaching and learning; self-expression and collaboration; and equity in computing. SCRATCH, is world's largest coding community for students and a coding language with a simple visual interface that allows them to create digital stories, games, and animations. After gaining knowledge of the required concepts, the students can practice multiple programs in Codetantra, Hacker rank.

Objective:

To meet the understanding of the subject such as knowledge of the basic concepts of programming and learn the usage of their applications in various fields and to develop the competitive skill among students.

Samples Projects: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Scratch - Imagine, Program, Shar
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https://scratch.mit.edu/projects/editor/?tutorial=getStarted
File
Edit
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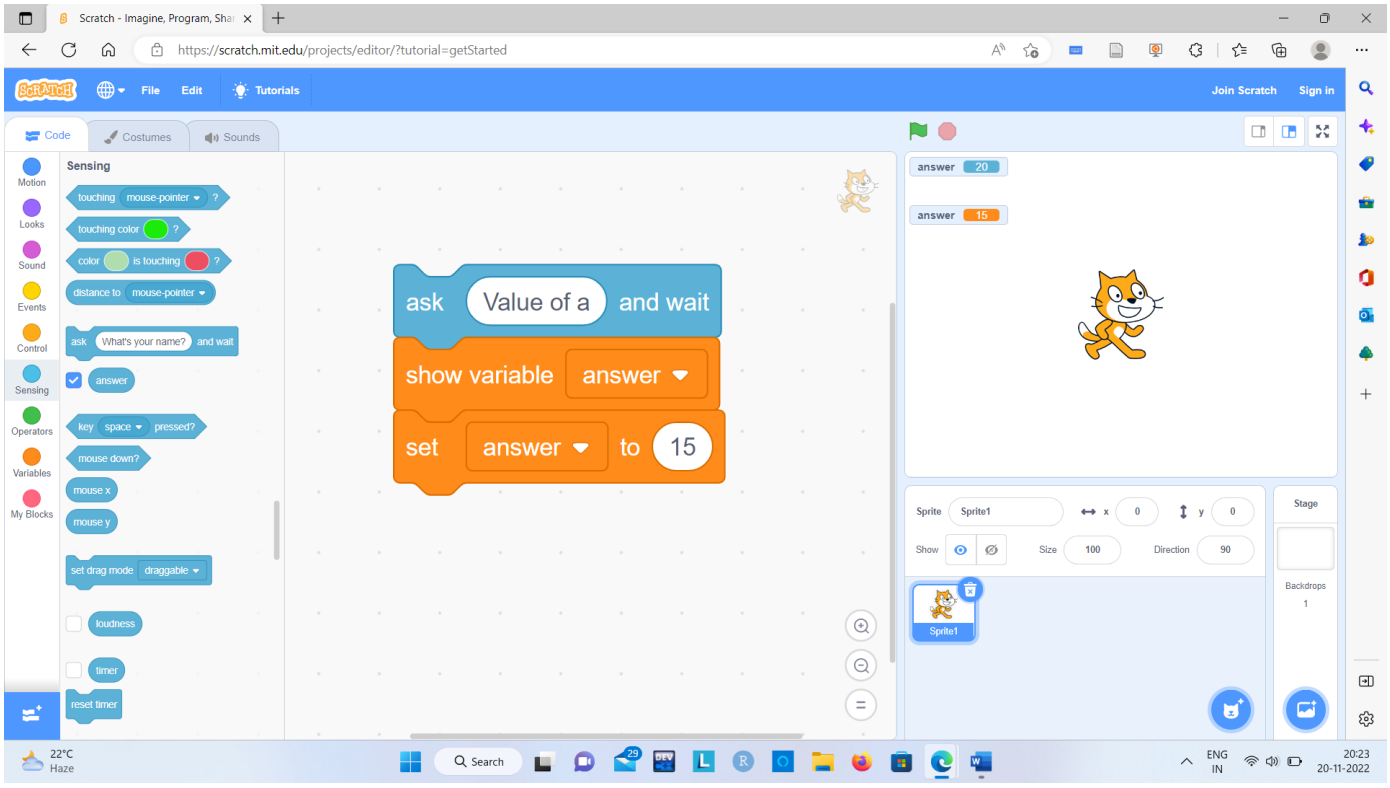
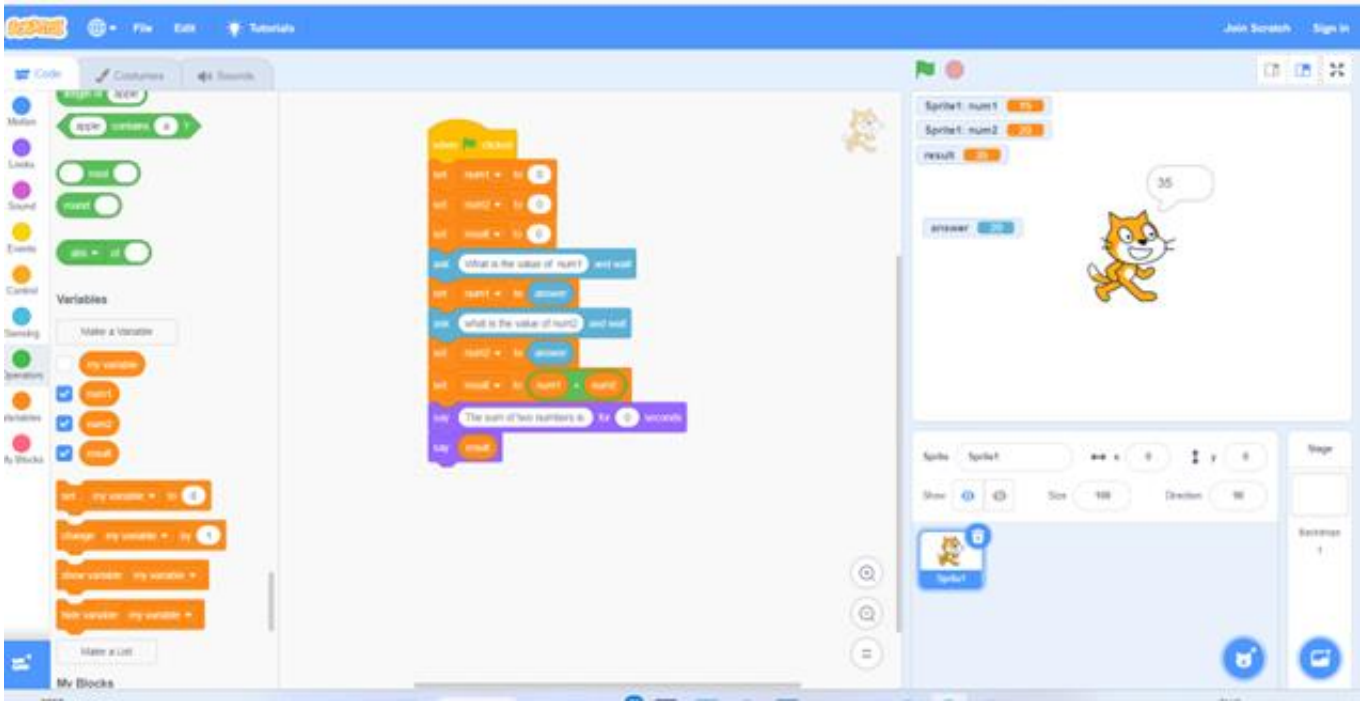
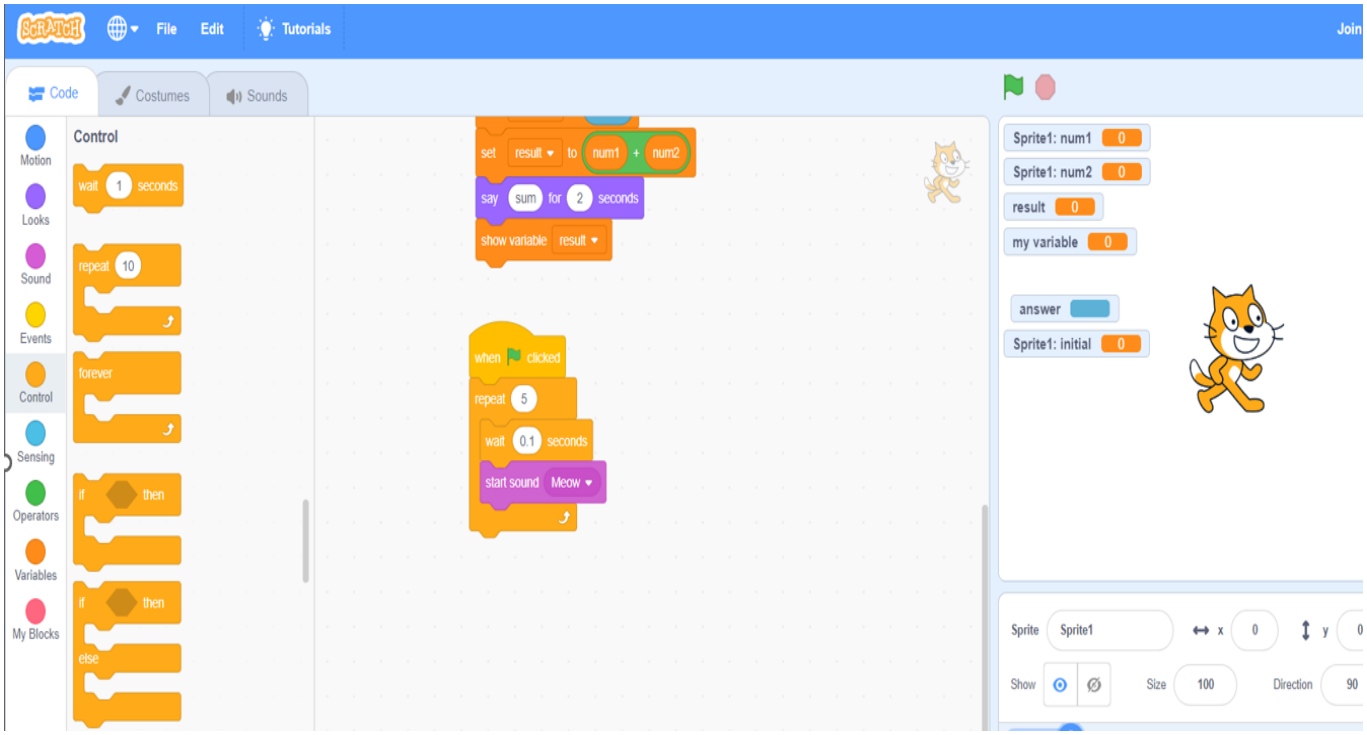
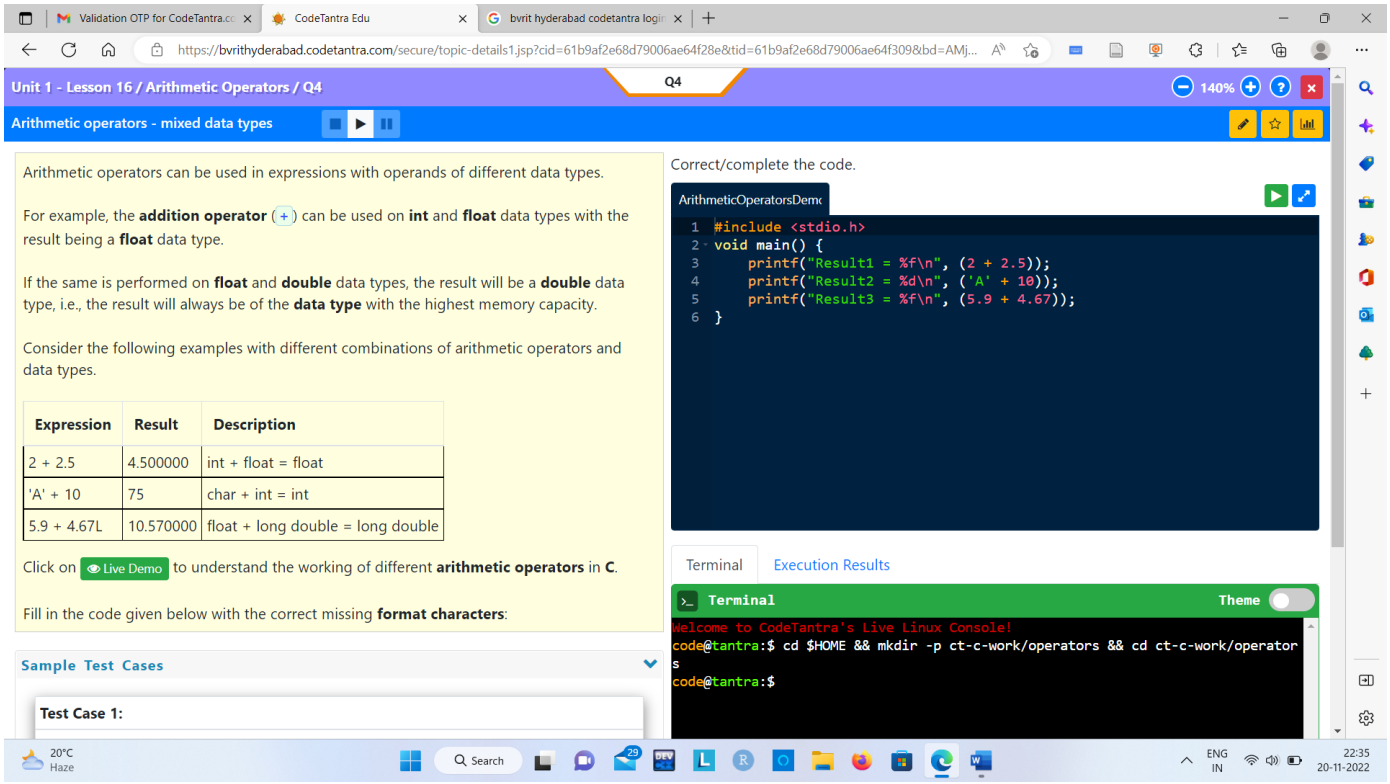
Code
Costumes
Sounds
Motion
Looks
Sound
Events
Control
Sensing
Operators
Variables
My Blocks
move 10 steps
turn 15 degrees
turn 15 degrees
go to random position
go to x: 0 y: 0
glide 1 secs to random position
glide 1 secs to x: 0 y: 0
point in direction 90
point towards mouse-pointer
change x by 10
set x to 0
change y by 10
Sprite
Sprite1
x 0
y 0
Show
Size 100
Direction 90
Stage
Backdrops 1
23°C
Mostly cloudy
Search
ENG
IN
20:19
21-11-2022


Scratch - Imagine, Program, Shar
https://scratch.mit.edu/projects/editor/?tutorial=getStarted
File
Edit
Tutorials
Join Scratch
Sign in
Code
Costumes
Sounds
Sensing
touching mouse-pointer ?
touching color ?
color is touching ?
distance to mouse-pointer
ask What's your name? and wait
answer
key space pressed?
mouse down?
mouse x
mouse y
set drag mode draggable
loudness
timer
reset timer
ask Value of a and wait
show variable answer
set answer to 15
answer 20
answer 15
Sprite
Sprite1
x 0
y 0
Show
Size 100
Direction 90
Stage
Backdrops 1
22°C
Haze
Search
ENG
IN
20:23
20-11-2022




File
Edit
Tutorials
Code
Costumes
Sounds
Control
Motion
Looks
Sound
Events
Sensing
Operators
Variables
My Blocks
wait 1 seconds
repeat 10
forever
if then
if then
else
set result to num1 + num2
say sum for 2 seconds
show variable result
when clicked
repeat 5
wait 0.1 seconds
start sound Meow
Sprite1: num1 0
Sprite1: num2 0
result 0
my variable 0
answer
Sprite1: initial 0
Sprite Sprite1
x 0
y 0
Show
Size 100
Direction 90


Validation OTP for CodeTantra.c
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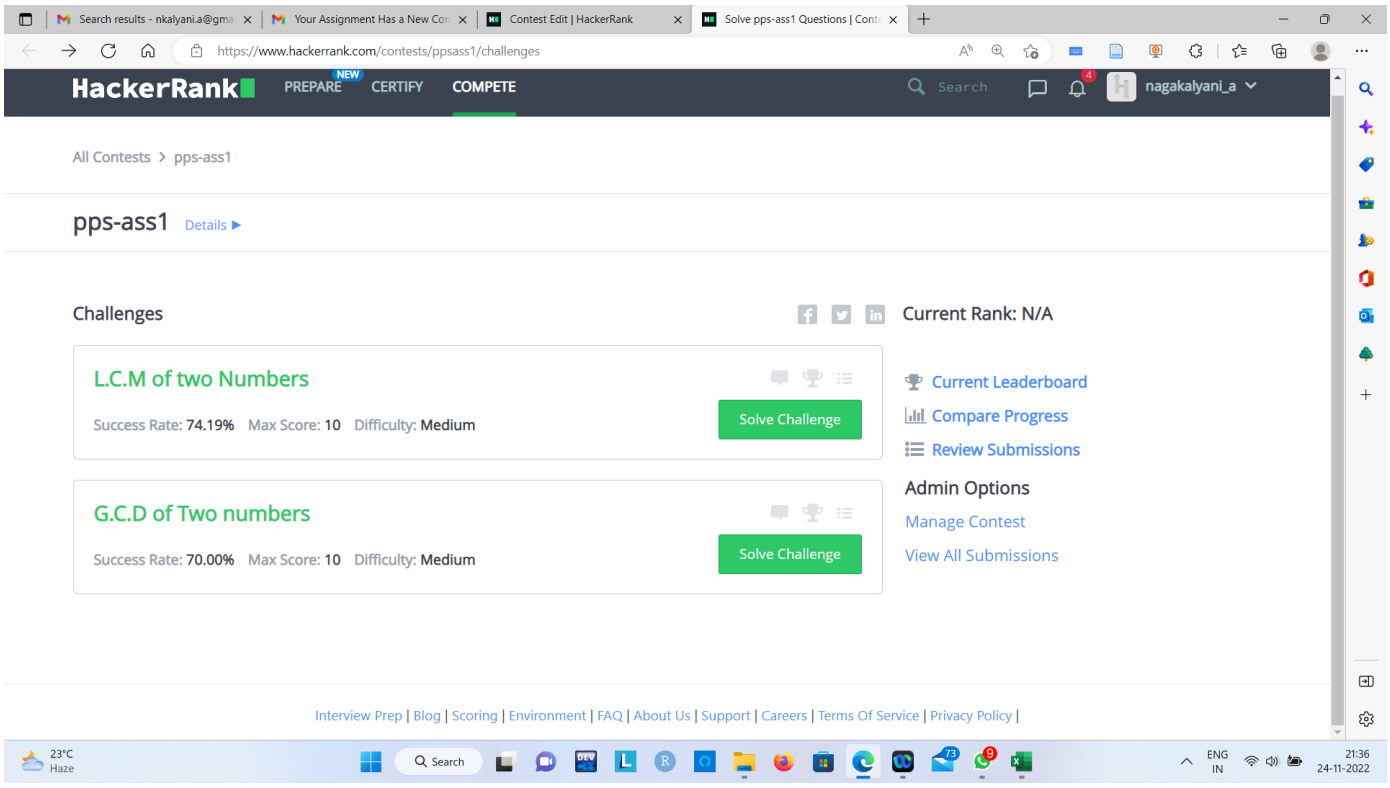
Unit 1 - Lesson 16 / Arithmetic Operators / Q4
Q4
140%
Arithmetic operators - mixed data types
Arithmetic operators can be used in expressions with operands of different data types.
For example, the addition operator (+) can be used on int and float data types with the result being a float data type.
If the same is performed on float and double data types, the result will be a double data type, i.e., the result will always be of the data type with the highest memory capacity.
Consider the following examples with different combinations of arithmetic operators and data types.
Expression
Result
Description
2 + 2.5
4.500000
int + float = float
'A' + 10
75
char + int = int
5.9 + 4.67L
10.570000
float + long double = long double
Click on Live Demo to understand the working of different arithmetic operators in C.
Fill in the code given below with the correct missing format characters:
Sample Test Cases
Test Case 1:
Correct/complete the code.
ArithmeticOperatorsDemo
#include <stdio.h>
void main() {
printf("Result1 = %f\n", (2 + 2.5));
printf("Result2 = %d\n", ('A' + 10));
printf("Result3 = %f\n", (5.9 + 4.67));
}
Terminal
Execution Results
Terminal
Theme
Welcome to CodeTantra's Live Linux Console!
code@tantra:$ cd $HOME && mkdir -p ct-c-work/operators && cd ct-c-work/operators
code@tantra:$
20°C
Haze
Search
ENG
IN
22:35
20-11-2022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Challenges
Current Rank: N/A
L.C.M of two Numbers
Success Rate: 74.19%
Max Score: 10
Difficulty: Medium
Solve Challenge
G.C.D of Two numbers
Success Rate: 70.00%
Max Score: 10
Difficulty: Medium
Solve Challenge
Current Leaderboard
Compare Progress
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Search
ENG
IN
21:36
24-11-2022