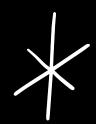
EXPERIENTIAL LEARNING



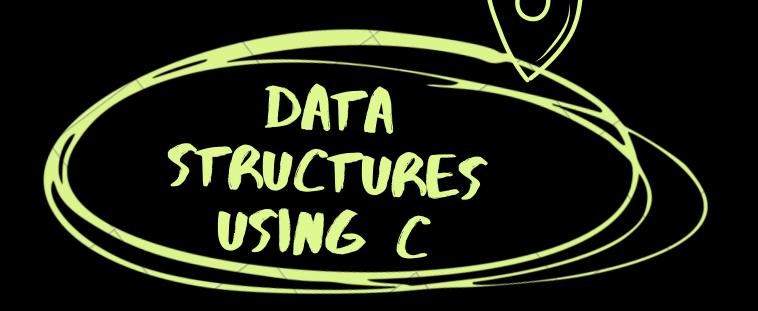


ADVANGED CALGUATOR





APRIL 20, 2022





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AIM AND OBJECTIVE

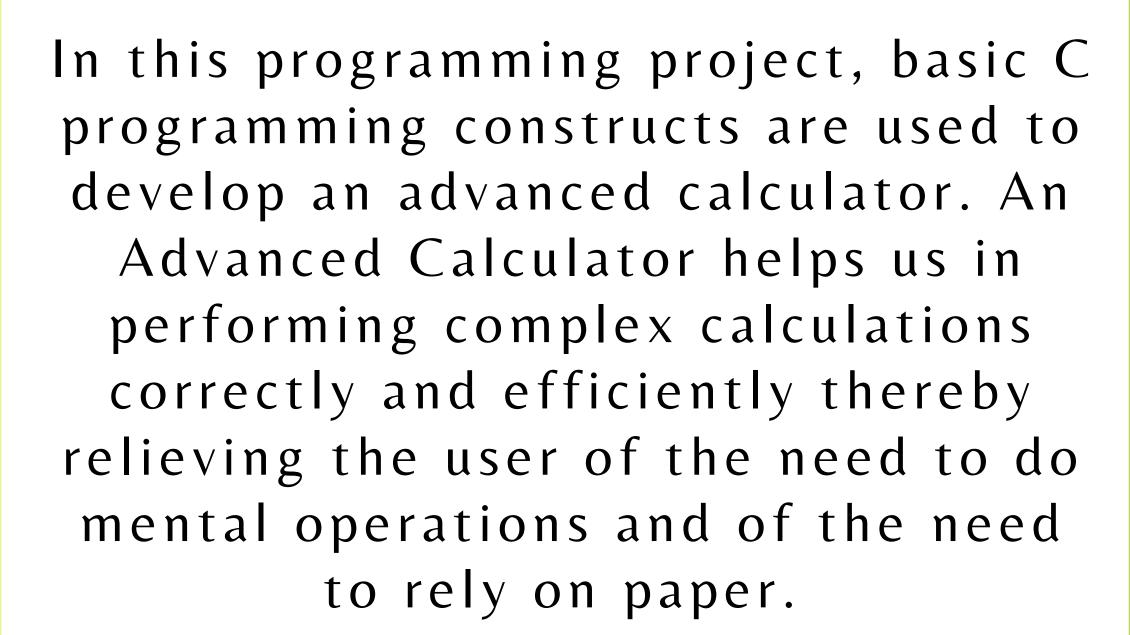




To understand the working of an advanced calculator using basic C programming and performing different types of operations using various operators.

DESCRIPTION









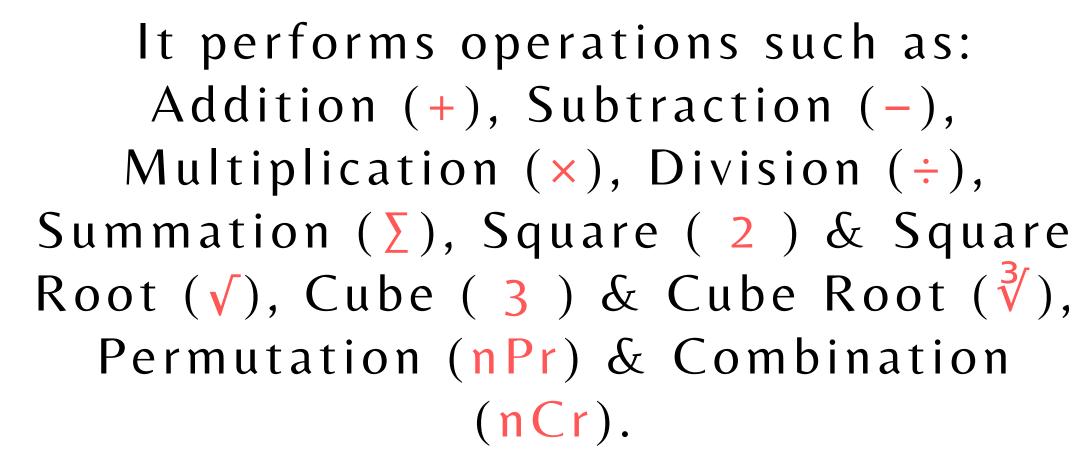




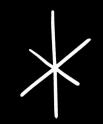


DESCRIPTION







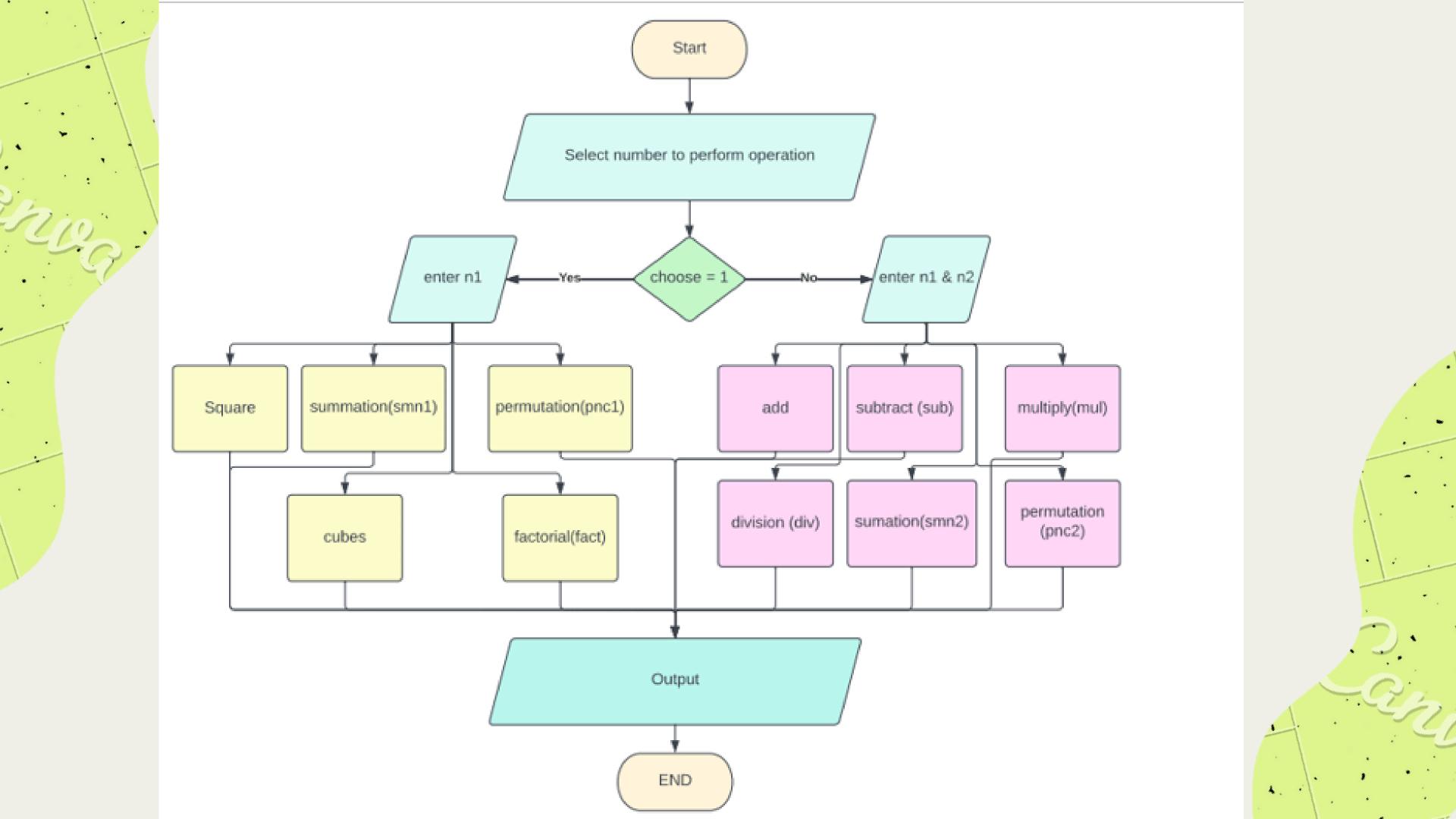


The program starts by prompting the user to enter either 1 or 2 values and then displays the possible operations done based on number of values









Condition 1: When number of inputs = 1 and input is positive

```
How many numbers would you like to enter: 1 or
Enter the number
5 * 5 = 25
Square Root (√) 5 = 2.236068
5 * 5 * 5 = 125
Cube Root (Fê¢) 5 = 1.709976
Summation (\frac{1}{4}ú) 5 = 15
5! = 120
500 = 1
5C1 = 5
5C5 = 1
5P0 = 1
5P1 = 5
5P5 = 120
```

Condition 2: When number of inputs = 1 and input is negative

```
How many numbers would you like to enter: 1 or 2
Enter the number
-5 * -5 = 25
Square Root (√) -5 = Complex Number
-5 * -5 * -5 = -125
Cube Root (\Gamma \hat{e}^{\dagger}) -5 = -1.709976
Summation (\frac{1}{1}u) -5 = not possible
-5! = not possible
-5C0 = not possible
-5C1 = not possible
-5C-5 = not possible
-5P0 = not possible
-5P1 = not possible
-5P-5 = not possible
```

Condition 3: When number of inputs = 2 and input 1 < input 2

```
How many numbers would you like to enter: 1 or 2
Enter the first number
Enter the second number
5 + 10 = 15
  -10 = -5
10 - 5 = 5
5 * 10 = 50
5 / 10 = 0.500000
10 / 5 = 2.000000
Summation (\frac{1}{4}ú) 5 to 10 = 45
5C10 = not possible
5P10 = not possible
500 = 1
5C1 = 5
5C5 = 1
5P0 = 1
5P1 = 5
5P5 = 120
1000 = 1
10C1 = 10
10C10 = 1
10P0 = 1
10P1 = 10
10P10 = 3628800
```

Condition 4: When number of inputs = 2 and input 1 > input 2

```
How many numbers would you like to enter: 1 or 2
Enter the first number
Enter the second number
10 + 5 = 15
10 - 5 = 5
5 - 10 = -5
10 * 5 = 50
10 / 5 = 2.000000
5 / 10 = 0.500000
Summation (\frac{1}{1}\acute{u}) 5 to 10 = 45
10C5 = 252.000000
10P5 = 30240.000000
1000 = 1
10C1 = 10
10C10 = 1
10P0 = 1
10P1 = 10
10P10 = 3628800
500 = 1
5C1 = 5
5C5 = 1
5P0 = 1
5P1 = 5
5P5 = 120
```



LEARNING OUTCOME



This code helped us in understanding the working of an advanced calculator

