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Problem 1: Python Program to add two numbers

Example:

Input: num1 = 5, num2 = 3
Output: 8
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Input: num1 = 13, num2 = 6

Output: 19

Solution 1: Python Program to add two numbers

Python3 program to add two numbers

num1 = 15 num2 = 12

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Adding two nos sum = num1 + num2

printing values print("Sum of {0} and {1} is {2}" .format(num1, num2, sum))

Solution 2 : Python Program to add two numbers

```
# Python3 program to add two numbers
number1 = input("First number: ")
number2 = input("\nSecond number: ")
# Adding two numbers
# User might also enter float numbers
sum = float(number1) + float(number2)
# Display the sum
# will print value in float
print("The sum of {0} and {1} is {2}" .format(number1, number2, sum))
```

Problem 2: Python Program for factorial of a number

Examples:

Problem 3: Python Program for simple interest

Simple interest formula is given by:

Simple Interest = $(P \times T \times R)/100$

Where,

P is the principle amount

T is the time and

R is the rate

```
EXAMPLE1:
Input : P = 10000
R = 5
T = 5
Output :2500
We need to find simple interest on Rs. 10,000 at the rate of 5% for 5 units of time.
```

EXAMPLE2:

Input : P = 3000

R = 7

T =

Output :210

Problem 4: Python Program for compound interest

Formula to calculate compound

interest annually is given by:

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Compound Interest = P(1 + R/100) t Where,

P is principle amount

R is the rate and

T is the time span

Input : Principle (amount): 1200

Time: 2

Rate: 5.4

Output : Compound Interest =

1333.099243

Problem 5 : Python Program to check Armstrong Number

```
Input : 153
Output : Yes
153 is an Armstrong number.
1*1*1 + 5*5*5 + 3*3*3 = 153
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Input : 120
Output : No
120 is not a Armstrong number.
1*1*1 + 2*2*2 + 0*0*0 = 9
Input : 1253
Output : No
1253 is not a Armstrong Number
1*1*1*1 + 2*2*2*2 + 5*5*5*5 + 3*3*3*3 =
723
Input : 1634
Output : Yes
 1*1*1*1 + 6*6*6*6 + 3*3*3*3 + 4*4*4*4 =
 1634
```

Problem 6 : Python Program for Program to find area of a circle

```
Area = pi * r2
where r is radius of circle
```

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Problem 7 : Python program to print all Prime numbers in an Interval

Given two positive integer start and end. The task is to write a Python program to print all Prime numbers in an Interval.

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Definition: A prime number is a natural number greater than 1 that has no positive divisors other than 1 and itself. The first few prime numbers are {2, 3, 5, 7, 11,}.

Problem 8 : Python program to check whether a number is Prime or not

Definition: A prime number is a natural number greater than 1 that has no positive divisors other than 1 and itself. The first few prime numbers are {2, 3,

5, 7, 11,}.

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Input: n = 11

Output: true

Input: n = 15

Output: false

Problem 9 : Python Program for n-th Fibonacci number

In mathematical terms, the sequence Fn of Fibonacci numbers is

defined by the recurrence relation

with seed values

$$F0 = 0$$
 and $F1 = 1$.

Hint: Recursion

Problem 10 : Python Program for printing Fibonacci numbers

In mathematical terms, the sequence Fn of Fibonacci numbers is

defined by the recurrence relation

with seed values

$$F0 = 0$$
 and $F1 = 1$.

Hint: Recursion

Problem 11: Python Program for How to check if a given number is Fibonacci number?

Input : 8

Output : Yes

Input : 34

Output : Yes

Input : 41

Output : No

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Problem 12 : Program to print ASCII Value of a character

Input : a

Output : 97

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Input : D

Output : 68

Problem 13 : Python Program for Sum of squares of first n natural numbers

```
Input: N = 4

Output: 30

= 1 + 4 + 9 + 16 Perfect Plan B

= 30
```

```
Input : N = 5
```

Output : 55

Problem 14: Python Program for cube sum of first n natural numbers

Input : n = 5

Output : 225

Input : n = 7

Output : 784

13 + 23 + 33 + 43 + 53 +

63 + 73 = 784

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