

1) Find largest number and smallest number among 4 numbers. (user input).

2) Series: 1, 2, 3, 6, 5, 10, 7, 14, 9, 18, 11, ...

3) Lcm of numbers (user input)

4) swap 2 numbers without temp variable

5) 1 user input \rightarrow no. of Rows

1 2 3

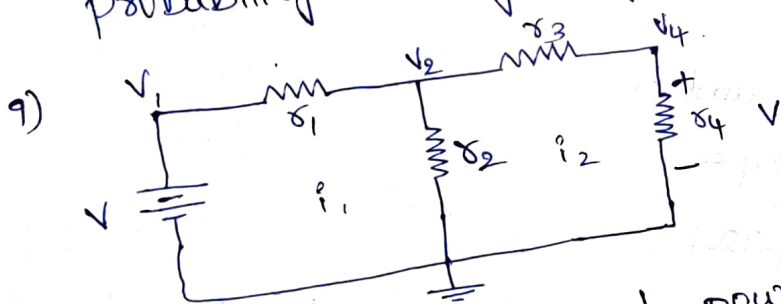
1 2 3 4 5

1 2 3 4 5 6 7

6) probability of finding heads when 3 coins tossed simultaneously.

7) probability of finding Ace in pack of cards.

8) In a box we have 3 red, 5 black, 6 blue balls, if we draw 3 balls. find the probability of getting 1 red, 1 blue, 1 black?



find the voltage and power?

10)

1 2 3 4

5 6 7 8 9

10 11 12

13

11)

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12)

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13)

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14)

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15) Reverse a number

I/p = 12345

O/p = 54321

16) find Roots of a quadratic equation?

17) finding whether the year is leap year or not?

18) IF user gives given date-month-year, find the day?

19) Take 2 numbers from user & find the sum of numbers which are not divisible by 5 between the range?

20) Hollow square.

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# # # # #
      #
#           #
#           #
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# # # # #
```

21) Find Armstrong numbers between two intervals. (user input)

22) Convert binary number to octal?

23) Convert binary number to Hexadecimal?

24) Convert decimal number to Hexa?

25) Take matrix elements from the user and display the matrix.

26) Pascal's Triangle

```
      1
     1 1
    1 2 1
   1 3 3 1
  1 4 6 4 1
```

27) Take a string from user and print all the combinations.

Ex: if abc

op = ~~abc~~ a b c ab bc ac abc
a

28)

1
2 3 2
3 4 5 4 3
4 5 6 7 6 5 4

29) find no. of vowels and consonants in a string?

30) Transpose a matrix,

31) Multiplication of matrix.

32) Find hours:minutes:seconds, if user give seconds

EX: i/p = 3600

o/p = 01:00:00

33) Take 2 lines and check whether they are parallel or not?

34) Find the sum of lower triangle elements in a matrix?

35) $1! + 2! + 3! + 4! + \dots + n!$

36) Take a string from user and arrange that string in Alphabetical order.

37) Take ranges from user and find prime numbers between the range.

38) Find determinant of matrix.

39) Find Inverse of matrix.

40) Take ranges from user and find leap year count between the range.

41) Anagram

42) $\frac{1!}{1} + \frac{2!}{2} + \frac{3!}{3} + \dots + \frac{n!}{n}$

- 43) Take 2 complex numbers and divide & print real number and imaginary number?
- 44) Take some Indian standard time & display London and America time?
- 45) Take some number and display Lsb.
- 46) Take some number and display msb.
- 47) Take a number and right shift the bits by n times.
- 48) Take a number and left shift the number by n times.
- 49) Take a number and toggle the n^{th} bit
- 50) Take a number and display the n^{th} bit
- 51) Take two dates from the user and display the no. of days between those 2 dates.