

Code

- ① Calculate 4 subjects % percentage and Sum
- ② Calculate S.I (Simple interest) Use $S.I = \frac{PRT}{100}$
- ③ Write an algorithm to type your name / age you can vote or not
- ④ Write an algorithm to calculate the root of a quadratic equation $(ax^2 + bx + c)$
- ⑤ Write an algorithm to calculate area of a Δ
$$\sqrt{s(s-a)(s-b)(s-c)}$$
$$s = \frac{a+b+c}{2}$$
- ⑥ algorithm for calculate a factorial of given no.
- ⑦ Sum of 100 numbers from 1 to 100
- ⑧ Sum of three numbers from input
- ⑨ Write a program to calculate circumference of a circle
- ⑩ Write a program to calculate area and perimeter of a rectangle
$$= 2(a+b)$$

square $= 4a$
- ⑪ Write a program to calculate volume of a sphere
$$\frac{4}{3}\pi r^3$$
- ⑫ Write a program to interchange values of two variables using a new variable

~~13~~ write program, ⑫ using without new variable

~~14~~ write a program to calculate volume and area of a room.

~~15~~ write a program that a number is greater than 100 or not

~~16~~ write a program to calculate greatest among two numbers.

~~17~~ write Program to find wheather a number is between 5 and 500.

~~18~~ check wheather a number is even or odd.

~~19~~ write a program to take value of P

- ① Red
- ② Yellow
- ③ Pink
- ④ Black

~~20~~ Same program with switch case

~~21~~ make a calculator using switch case

~~22~~ print No 1 to 20

~~23~~ Sum ⑫ Code

~~24~~ Print a table using for loop

~~25~~ Print a table using while loop

26) Printing star "*" Pattern

```

      *
     * *
    *  * *
  
```

27) Print all even numbers from 1 to 50 using while loop.

28) Print code (27) using for loop

29) write a program to enter marks of 4 subjects print its total and percentage using for loop.

30) given No - 4789
we have to print 4+7+8+9 using for loop

31) Print Reverse order of a 4 digit number.

32) write a program to check wheather a no. is palindrom or not

33) To Print

```

      *
     * *
    *  * *
   *   * *
  *    * *
 *     * *

```

```

4
4 3 2 1
4 3 2
4 3 2 1

```

34) Doubt

```

4
3 3
4 3 7
4 3 7 5
4 3 7 5 2

```

given No - 43752

co i (5)
 co i 5
 n-1
 j = 5
 n-1

✓ 35 Break continue and goto programs :

✓ 36 Program to read & write array

✓ 39 write the program to print sum and average of an array which numbers are given by user.

✓ 38 WAP To find maximum value of an Array.

✓ 39 WAP To Save your name and print it with Array

✓ 40 WAP to print element of array in reverse order.

✓ 41 WAP to print number of odd numbers in an array.

✓ 42 WAP To read and write a two dimensional array of 3 by 5.

✓ 43 WAP to print sum of value of n matrix

✓ 44 WAP to enter two matrices and print sum of two matrices stored in third matrix.

✓ 45 P 44 But for -ve

✓ 46 Same Program to calculate $M_1 \times M_2$

✓ 47 P 46 But now you have to print it.

✓ 48 Built In function definition and example

✓ 49 User defined function and example

function declaration } define in an example
func definition
func calling

and

✓ 50 Use different kind of Add function from `<math.h>` and use its combination in different way.

✓ 51 function with no return type and no Parameter.

✓ 52 function with return types and no parameter.

✓ 53 func with no return types and with parameter.

✓ 54 func with return type and with parameter.

✓ 54) write a c++ code factorial of a number using function;

✓ 55) To check wheather a number is odd or even; (with function)

✓ 56) classes Definition and syntax and example; 56 (b) 56 (c)

✓ 57) area of rectangle by classes;

✓ 58) Scope resolution operators

✓ 59) WAP for Arithmetic class: taking 2 variable
add, sub, multi, div, modulus.

● 60) WAP for calculating area of circle by class

✓ 61) Constructors, definition, example

✓ 62) class Rectangle area

✓ 63) Default constructor example

✓ 64) Parameterized constructor example,

✓ 65) class Rectangle example

✓ 66) Copy constructor MI MII

✓ 67) MI

● 68) MII

✓ 69) Destructor definition, example

✓ 70) get and display name of student

✓ 71) class demo

✓ 72) class factorial

✓ 73) Inheritance define, make class

✓ 74) Excess specifications with code

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- 79 class addition with multi level inheritance
- 77 Multiple inheritance
- 78 Hierarchical inheritance
- 79 Hybrid Inheritance
- 80 Access specifiers assigned to derived class
- 81 friend function with class circle
 - 82 friend fun for two classes
- 83 WAP to calculate greatest among two numbers using friend function:
- 84 Polymorphism:
 - 85 CTP
 - 86 function overloading
 - 87 WAP -
 - 88 operator overloading , En
 - 89 # class share , points
 - 90 # class shape
- 91 Run time polymorphism , key points, example
- 92 ~~Re~~ Call by value
- 93 call by reference
- 94 call by address
- 95 Recursion