

1. Input an array of 10 elements. Store even numbers in even array and odd numbers in odd array. Display the contents of all the arrays.
  2. Write a program which demonstrates functionality of method overriding.
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1. Write a console application to demonstrate the functionality of Exception handling.
  2. Show the use of Abstract class. VB.NET
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1. Create an array of 10 elements and now do the following -
    - a) Sort them in ascending order.
    - b) Print the sum of all elements..
  2. Show the use of Interface.
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1. Write a console application to accept a number from user and reverse the number and display the reversed number.
  2. Create a program to show the concept of Overloading.
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1. Write a console application that takes input from user and store it in an array. And copy only prime numbers to the new array.
  2. Write a console application to demonstrate use of Throw statement in Exception handling.
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- .. Create a property RollNo of Stu class. Assign the value for the property & display it.
- Create abstract class which implements an Interface.

1. Input an array from user, now copy only factorial of each numbers to new array. (VB.NET)
2. WAP which shows the basic functionality of abstract class (VB)
3. WAP to display all perfect numbers between 1 to 1000.

1. If an array contains 20 elements, store the even numbers and odd numbers, display the sum of the contents of all these two arrays. (VB)
2. WAP to display prime numbers between 1 to 100. (VB)
3. Accept String from user and find out its palindrome or not. (VB)

1. Print the following pattern:

```

5 5 5 5 5
4 4 4 4
3 3 3
2 2
1

```

(VB)

2. Input an array from user now copy only factorial of each number to a new array. (VB)
3. Create a simple console application which will sort an array through bubble sort Algorithm. (VB)

1. Print the following pattern :-

(VB)

```

A B C D E
A B C D
A B C
A B
A

```

2. Calculate area of circle & triangle using overloading of constructor. (VB)
3. Raise exception if user enters no between 100-105. (VB)

1. WAP to perform addition, subtraction, multiplication and division using parameterized constructor. (VB)
2. WAP in VB.NET to show demo of overloading & overriding. (VB)
3. Create a console application which will read ~~1000~~ 10 elements in an array. Store even numbers in even array, odd numbers in odd array. Display the contents of all arrays. (VB)

1) WAP to accept two numbers from user & display sum of two numbers using constructor.

2) WAP to illustrate try-catch with division by zero exception.

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1) WAP to illustrate inline function that returns largest of 3 numbers

2) WAP to print given string is palindrome or not.

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1) Print the following pattern using CONSTRUCTOR

```
1
2 3
4 5 6
7 8 9 10
```

2) WAP to show a main function can be friend function of a class.

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1) Write a simple C++ abstract class shape which will have pure virtual method called area(),

2) Write a C++ program using class to compare 2 strings lengthwise.

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1) Write a C++ program using class to sort the array in descending order.

2) Implement the concept of constructor & destructor with suitable example.

- 1) WAP to calculate area of rectangle using inline function. (C++)
- 2) WAP to check number is Armstrong or not. [C++]
- 3) WAP to show binary operator overloading '+'. (C++)

- 1) WAP using inline function to calculate simple interest. (C++)
- 2) WAP to print following pattern [C++]

```

      1
     1 2
    1 2 3
   1 2 3 4
  1 2 3 4 5

```

- 3) WAP to overload '+' operator. (C++)

- 1) WAP to find area and perimeter of square and triangle by creating the class 'shap', 'square', 'triangle' and required data members & functions like input values(), area(). [C++]

- 2) WAP to overload '<<' & '>>' operator. (C++)

- 3) WAP to calculate Fibonacci Series of a number. (C++)

- 1) WAP to overload '++' & '--' operator. [C++]
- 2) WAP to display the following pattern using constructor. [C++]

```

$
$
$ $
$ $ $
$ $ $ $
$ $ $ $ $
$ $ $ $ $
$ $ $ $ $

```

- ③ WAP that will print armstrong number using function. (C++)

- 1) WAP for prefix and postfix form of auto increment operator. [C++]
- 2) WAP that will ask for temperature in Fahrenheit and convert it into Celsius.
- 3) WAP to calculate area of rectangle, cube and cylinder using class.