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Constructors In C++

**Constructors:**

* Constructor is a special member function with the same name as of the class.
* It is used to initialize the objects of its class
* It is automatically invoked whenever an object is created

**Code for explaining the Contructors:**

#include <iostream>

using namespace std;

class X

{

    int a, b;

public:

    X(void);

    void print(void)

    {

        cout << "The Value of a is: " << a << " and the value of b is: " << b << endl;

    }

};

X ::X(void)     //giving the vakues to a and b

{

    a = 10;

    b = 17;

}

int main()

{   X a,a1,a2;

    a.print();

    a1.print();

    a2.print();

    return 0;

}

**Output:**

The Value of a is: 10 and the value of b is: 17

The Value of a is: 10 and the value of b is: 17

The Value of a is: 10 and the value of b is: 17

**Properties of Constructors:**

1. It should be declared in the public section of the class.

2. They are automatically invoked whenever the object is created.

3. They cannot return values and do not have return types.

4. It can have default arguments.

5. We cannot refer to their address.