What is a Constructor?

- Constructors are special methods whose name is the same as the class name.
- It is invoked automatically when an object is created to initialize an object
- It does not have explicit return type.

Types of Constructors:

- 1. Default constructor
- 2. Parameterized constructor
- 3. Copy constructor

Default constructor: The default constructor is the constructor which doesn't take any argument. It has no parameters.

```
class ABC
{
   int x;

   ABC()
   {
      x = 0;
   }
}
```

Parameterized constructor: The constructors that take some arguments are known as parameterized constructors

```
class ABC
{
   int x;

   ABC(int y)
   {
        x = y;
   }
}
```

Copy Constructor: It is a type of constructor, whose purpose is to copy an object to another. It means that a copy constructor will clone an object and its values, into another object of same class.

```
class ABC
{
  int x;

  ABC(int y)
  {
      x = y;
  }
  // Copy constructor
  ABC(ABC abc)
  {
      x = abc.x;
  }
}
```