# IINII 2

Shreyasi

```
#include<iostream>
class Test{
    private:
    int score;
    public:
    void setScore(int s)
        score=s;
    int getScore()
        return score;
```

## CLASSES



# ACCESS SPECIFIERS

- There are three access specifiers in C++:
  - Public members can be accessed from outside the class.
  - Private members cannot be accessed from outside the class.
  - Protected members cannot be accessed from outside the class. They can be accessed in the inherited classes.



```
#include <iostream>
struct A{
    int a;
};
struct B:A{};
int main()
    B b1;
    b1.a=101;
    //default access of variables in struct is public
    std::cout<<b1.a;</pre>
```

### CLASS VS STRUCTURE

 The default access level of members in a class is private, where as, in a structure it is public.





It is used to initialize an object of the class.



It is a special member function that should always have the same name as the class.



It cannot return values, thus it should not have any return data type, including void.



If a class does not explicitly include a constructor, the compiler provides a default constructor will no parameters.



If the constructor takes only one argument, it is better to use the explicit keyword to avoid inadvertent type conversions.

# CONSTRUCTOR



```
#include <iostream>
using namespace std;
class Employee{
    private:
    string empName;
    public:
    explicit Employee(string name)
    :empName(name)
    string getName()
        return empName;
};
int main()
    Employee emp("Nina");
    cout<<emp.getName();</pre>
```

```
#include <iostream>
using namespace std;
class Employee{
    private:
    int empID;
    string empName;
    public:
    explicit Employee(int id, string name)
    :empID(id),empName(name)
    string getName() const;
};
string Employee::getName() const
    return empName;
```