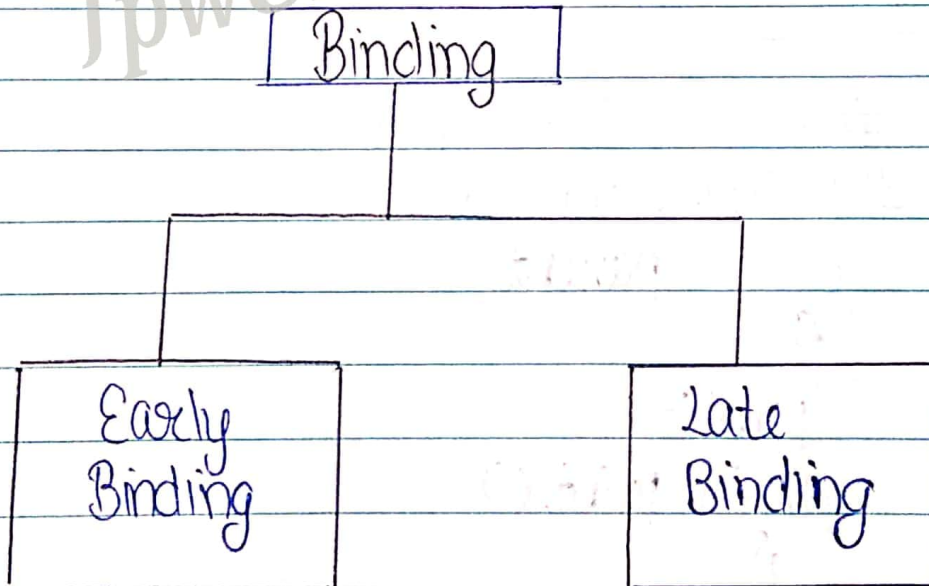


Early Binding and Late Binding

- Binding means linking. for each variables and functions this binding is done.
- The binding is done either compile time or at run time.
- Binding refers to the process of converting identifiers into addresses.



- Binding has two types

1. Early Binding
2. Late Binding

① Early Binding :-

- This is compile time Polymorphism.
- This is also called static binding or compile-time binding.
- In this, by default, C++ matches a function call with correct function definition at compile time.
- Static binding / early binding is achieved using function overloading and operator overloading.

WAP of early Binding

```
#include <iostream.h>
#include <conio.h>
class parent
{
public:
void print()
{
cout << "Display parent class ";
}
};

class child : public parent
```

```

    {
        public:
        void print()
        {
            cout << "display child class" ;
        }
    };

```

```

void main()
{
    parent* p = new child ;
    p->print();
    getch();
}

```

Output :- Display Parent class.

2 Late Binding :-

- This is run time polymorphism.
- This is also called dynamic binding or run-time binding.
- If C++ matches a function call with the

correct function definition at run time, is called Late binding.

This is achieved using virtual function.

Program for Late Binding

```
#include <iostream.h>
#include <conio.h>
class parent
{
public:
virtual void print()
{
cout << "Display parent class ";
}
};
```

```
class child : public parent
{
```

```
public:
```

```
void print()
```

```
{
```

```
cout << "display child class ";
```

```
}
```

```
};
```

```
void main ()
```

```
{
```

```

    close();
    Parent * p = new child ;
    p-> print();
    getch();
}

```

Output :- display child class.

* Difference between Early Binding and Late Binding.

	Early Binding	Late Binding
1	Early Binding happens at the compile time.	Late Binding happens at the run time.
2	Its type is static.	Its type is dynamic.
3	It use function overloading and operator overloading.	Use virtual function.
4	This is called as compile time polymorphism.	This is called as run time polymorphism.

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