solidity-기본-7

☰ 태그	
📅 날짜	@2023년 6월 21일

function return값 변수 명시

```
contract lec29{
    function add(uint256 _num1, uint256 _num2) public pure returns (uint256){
        uint256 total = _num1 + _num2;
        return total;
    }

    function add2(uint256 _num1, uint256 _num2) public pure returns (uint256 total){
        total = _num1 + _num2;
        return total;
    }
}

// add add2 는 return값 변수명시 차이
// return값이 많아지면 헷갈릴 수도 있기 때문에 add2처럼 변수를 명시하는게 좋다.
```

modifier

```
contract lec30{
    function onlyAdults2(uint256 _age) public pure returns(string memory){
        require(_age>19, "You are not allowed to pay for the cigarette");
        return "Your payment is succeded";
    }

    function onlyAdults3(uint256 _age) public pure returns(string memory){
        require(_age>19, "You are not allowed to pay for the cigarette");
        return "Your payment is succeded";
    }
}

// 위 코드 같이 require가 중복이 되는데 저것보다 더 많은 코드를 수정을 해야할 때 사용
```

```
------------------------------------------------------------------------------------

contract lec30P{
    modifier onlyAdults{
        revert("You are not allowed to pay for the cigarette");
        _;
    }

    function BuyCigarette() public onlyAdults returns(string memory){
        return "Your payment is succeeded";
    }
}
```
위 경우 아래처럼 작동

```
contract lec30P{
    modifier onlyAdults{
        revert("You are not allowed to pay for the cigarette");
        function BuyCigarette() public onlyAdults returns(string memory){
        return "Your payment is succeeded";
      }
    }
```


```
contract lec30P{
    modifier onlyAdults{
        _;
        revert("You are not allowed to pay for the cigarette");
    }

    function BuyCigarette() public onlyAdults returns(string memory){
        return "Your payment is succeeded";
    }
}
```
의 경우

```
contract lec30P{
    modifier onlyAdults{
        function BuyCigarette() public onlyAdults returns(string memory){
        return "Your payment is succeeded";
    }
        revert("You are not allowed to pay for the cigarette");
    }
}
```

modifier 가 파라미터값을 받을 때

```
contract lec30P{
    modifier onlyAdults(uint56 _age){
```

```
            revert("You are not allowed to pay for the cigarette");
            _;
    }

    function BuyCigarette(uint256 _age) public onlyAdults(_age) returns(string memory){
        return "Your payment is succeeded";
    }
}
```