```
Smart Contract
pragma solidity >0.4.0 <0.6.0;
contract Contract A {
   uint256 value;
   constructor (uint256 n) public {
      value = n;
function incrementValue(uint256 x) public {
      value += x;
   }
}
contract Contract B is Contract A(22){
    function getValue() public view returns(uint256) {
       return value;
}
_____
B.2 Multilevel Inheritance
Smart Contract
pragma solidity >0.4.0 <0.6.0;
contract Contract_A {
   uint256 value;
   constructor (uint256 n) public {
       value = n;
   function incrementValue(uint256 x) public {
       value += x;
   }
}
contract Contract B is Contract A(22) {
   function decrementValue(uint256 x) public {
      value -= x;
}
contract C ontract C is Contract B {
    function getValue() public view returns(uint256) {
       return value;
}
B.3 Hierarchical Inheritance
Smart Contract
pragma solidity >0.4.0 <0.6.0;
contract Contract A{
   uint256 value;
```

```
constructor (uint256 n) public{
      value = n;
    function getValue() public view returns(uint256){
      return value;
}
contract Contract B is Contract A(22){
   function incrementValue(uint256 x) public {
       value += x;
}
contract C ontract C is Contract A(25){
   function decrementValue(uint256 x) public {
      value -= x;
}
-----
B.4 Multiple Inheritance
Smart Contract
pragma solidity >0.4.0 <0.6.0;</pre>
contract Contract A{
   uint256 value;
   constructor (uint256 n) public{
      value = n;
   function incrementValue(uint256 x) public {
      value += x;
}
contract Contract B is Contract A{
   function decrementValue(uint256 x) public {
      value -= x;
   }
}
contract Contract C is Contract A(25), Contract B{
   function getValue() public view returns(uint256){
       return value;
_____
```