

```
// SPDX-License-Identifier: UNLICENSED
```

```
pragma solidity ^0.8.0;
```

```
contract Bank{
```

```
mapping(address => uint) public user_account;
```

```
mapping(address => bool) public user_exist;
```

```
function create_account() public payable returns(string  
memory)
```

```
{  
    require(user_exist[msg.sender] == false, "Account Already  
created!");
```

```
    user_account[msg.sender] = msg.value;
```

```
    user_exist[msg.sender] = true;
```

```
    return "Account created";
```

```
}
```

```
function deposit(uint amount) public payable
```

```
returns(string memory){
```

```
    require(user_exist[msg.sender] == true, "Account not  
created!");
```

```
    require(amount > 0, "Amount should be greater than 0");
```

```
    user_account[msg.sender] += amount;
```

```
    return "Amount deposited sucessfully";
```

```
}
```

```
function withdraw(uint amount) public payable
```

```
returns(string memory){
```

```
    require(user_exist[msg.sender] == true, "Account not  
created!");
```

```
    require(amount > 0, "Amount should be greater than 0");
```

```
    require(user_account[msg.sender] >= amount, "Amount is  
greater than money deposited");
```

```
    user_account[msg.sender] -= amount;
```

```
    return "Amount withdrawn sucessfully";
```

```
}
```

```
function account_balance() public view returns(uint){
```

```
    return user_account[msg.sender];
```

```
}
```

```
function account_exists() public view returns(bool){  
    return user_exist[msg.sender];  
}
```

```
}
```