External Practical

AIM:

Write the solidity program for auction system.

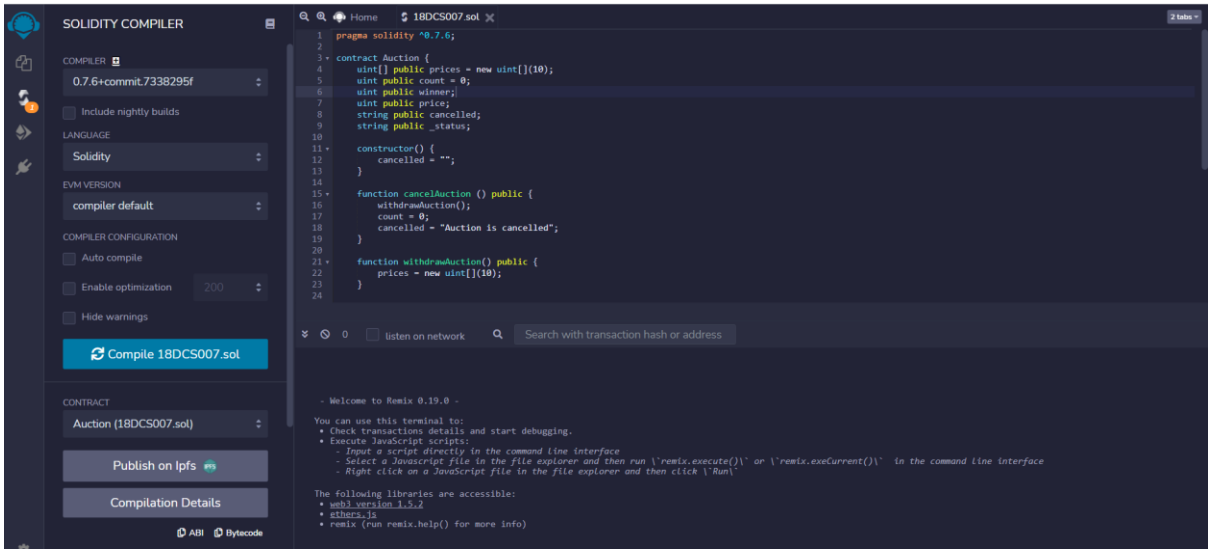
OUTPUT:

```
pragma solidity ^0.7.6;

contract Auction {
   uint[] public prices = new uint[](10);
   uint public count = 0;
   uint public winner;
   uint public price;
   string public cancelled;
   string public _status;

   constructor() {
      cancelled = "";
   }

   function cancelAuction () public {
      withdrawAuction();
      count = 0;
      cancelled = "Auction is cancelled";
   }

   function withdrawAuction() public {
      prices = new uint[](10);
   }

   function completeAuction() public {
      uint maxi = 0;
      uint win;
      for(uint x = 0; x < prices.length; x++)
      {
         if(prices[x] > maxi)
         {
            win = x;
            maxi = prices[x];
         }
      }
      withdrawAuction();
      count = 0;
      winner = win;
      price = maxi;
   }

   function placeBid(uint _price) public {
      prices[count] = _price;
```

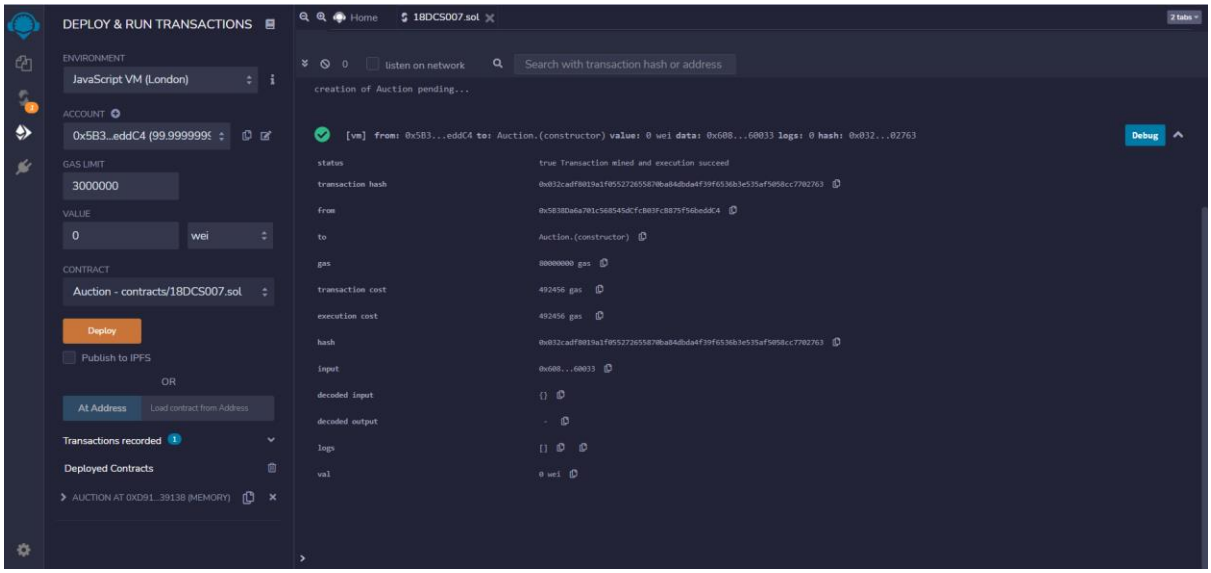
```
        _status =  "Successful";
        count++;
    }
}
```

OUTPUT

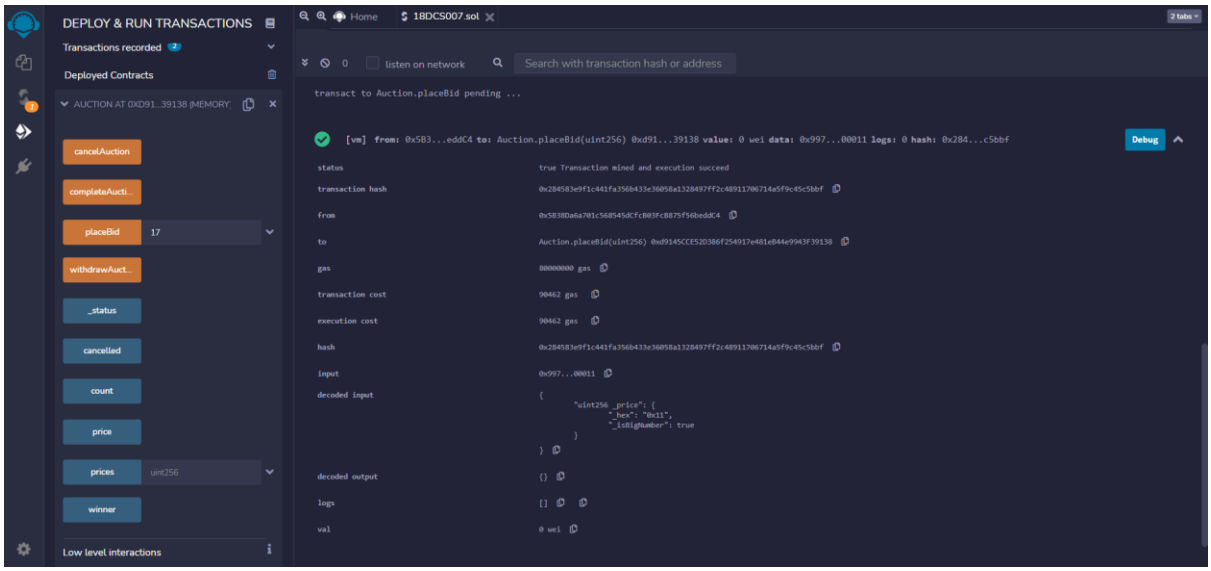
Compiled Successfully



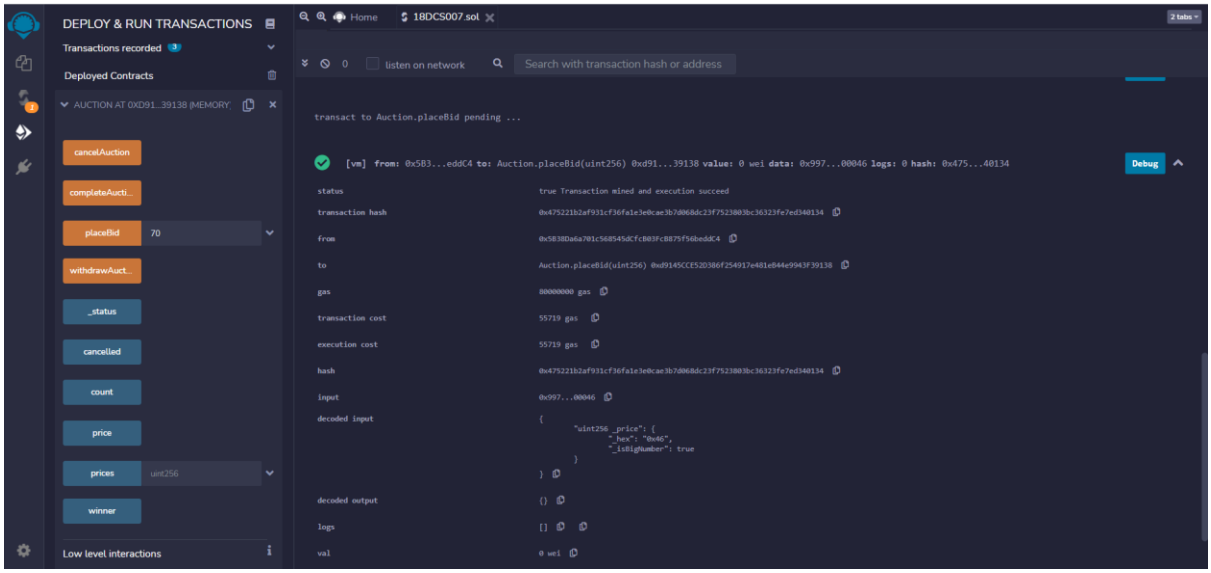
Deployed Successfully



Placed Bid of 17

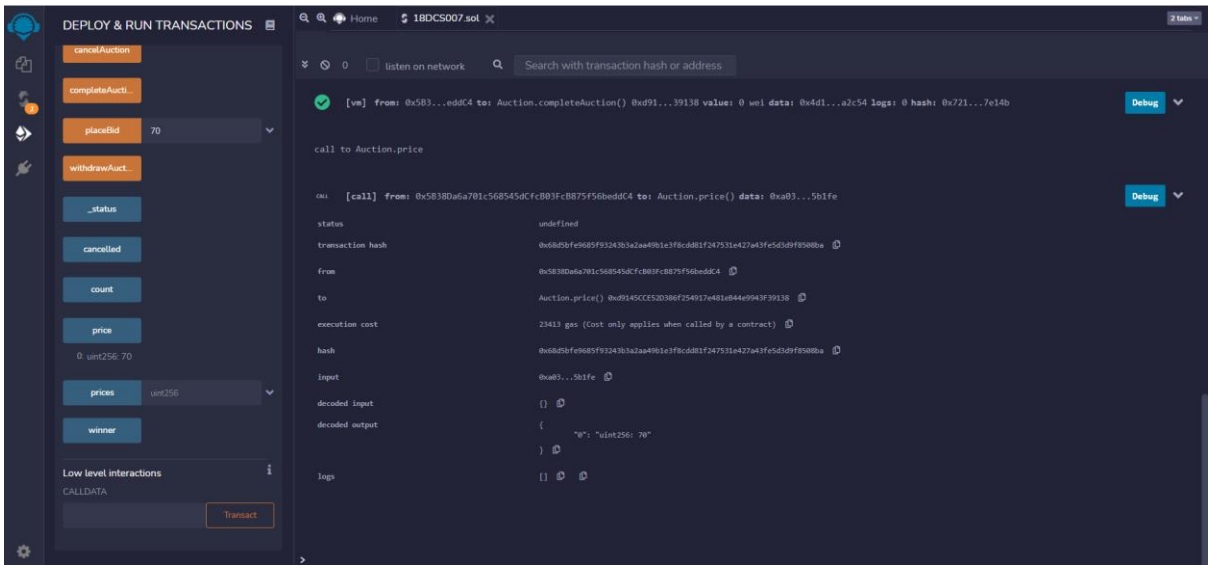


Placed Bid of 70



Auction Completed

Final Price



CONCLUSION

Successfully completed the given practical.