```
C:\Users\hp430G8\Desktop\vending-machine-contract>truffle migrate

Compiling your contracts...
===========================
> Compiling .\contracts\VendingMachine.sol
> Artifacts written to C:\Users\hp430G8\Desktop\vending-machine-contract\build\contracts
> Compiled successfully using:
   - solc: 0.8.11+commit.d7f03943.Emscripten.clang


Starting migrations...
======================
> Network name:    'ganache'
> Network id:      5777
> Block gas limit: 6721975 (0x6691b7)


2_deploy_contracts.js
=====================

   Deploying 'VendingMachine'
   --------------------------
   > transaction hash:    0x3f82ed87dedaedd06b6b044df0ce3ecab8824616e42d3076a48fc0101ab425a8
   > Blocks: 0           Seconds: 0
   > contract address:    0xAC0858aA4D49bFAd823136fA217F1AAb3CD486F5
   > block number:       1
   > block timestamp:    1700298645
   > account:            0xf7dB058Ea4C842B60A22664Da737CAC5cf474aea
   > balance:            99.9977721085
   > gas used:           660116 (0xa1294)
   > gas price:          3.375 gwei
   > value sent:         0 ETH
   > total cost:         0.0022278915 ETH


   > Saving artifacts
   ------------------------------------
   > Total cost:        0.0022278915 ETH

Summary
=======
> Total deployments:   1
> Final cost:          0.0022278915 ETH
```

```
truffle(ganache)> let vendingMachine = await VendingMachine.deployed();
undefined
truffle(ganache)> vendingMachine
TruffleContract {
  constructor: [Function: TruffleContract] {
    _constructorMethods: {
      configureNetwork: [Function: configureNetwork],
      setProvider: [Function: setProvider],
      new: [Function: new],
      at: [AsyncFunction: at],
      deployed: [AsyncFunction: deployed],
      defaults: [Function: defaults],
      hasNetwork: [Function: hasNetwork],
      isDeployed: [Function: isDeployed],
      detectNetwork: [AsyncFunction: detectNetwork],
      setNetwork: [Function: setNetwork],
      setNetworkType: [Function: setNetworkType],
      setWallet: [Function: setWallet],
      resetAddress: [Function: resetAddress],
      link: [Function: link],
      clone: [Function: clone],
      addProp: [Function: addProp],
      toJSON: [Function: toJSON],
      decodeLogs: [Function: decodeLogs]
    },
    _properties: {
      contract_name: [Object],
      contractName: [Object],
      gasMultiplier: [Object],
      timeoutBlocks: [Object],
      autoGas: [Object],
      numberFormat: [Object],
      abi: [Object],
      metadata: [Function: metadata],
      network: [Function: network],
      networks: [Function: networks],
      address: [Object],
      transactionHash: [Object],
      links: [Function: links],
      events: [Function: events],
      binary: [Function: binary],
      deployedBinary: [Function: deployedBinary],
```

```
truffle(ganache)> let balance = await vendingMachine.getVendingMachineBalance();
undefined
truffle(ganache)> balance
BN {
  negative: 0,
  words: [ 100, <1 empty item> ],
  length: 1,
  red: null
}
truffle(ganache)> console.log(balance.toString());
100
undefined
truffle(ganache)> let accounts = await web3.eth.getAccounts()
undefined
truffle(ganache)> accounts
[
  '0xf7dB058Ea4C842B60A22664Da737CAC5cf474aea',
  '0x8f65f201EA8E42dDa0e68DE05489F95A027B7df2',
  '0xADD3fB1E13BDF0b8FF7140F9c6908394D4decDEe',
  '0x461e1FAc0fe34975395D277dc7D413a3907f1481',
  '0x9F32e1d14d396275654B694A3A75Bd556F585398',
  '0xe4e98fE8304a8C8F32A61fD3D5bf6c3362b56043',
  '0x5F42539a32346fDE961bf1bFE5c5C487EDDfcef3',
  '0x1AFacf973Ee704220aB43B996D940407cAA42973',
  '0x817f36cFEC13E50197a648d7b4D6419336f35fCe',
  '0x0aDb6cE2fef23A6B1A5b9fA350246A4D26DAAF81'
]
truffle(ganache)> await vendingMachine.purchase(1, {from: accounts[1], value: web3.utils.toWei('1', 'ether')});
Uncaught:
Error: VM Exception while processing transaction: revert Insufficient payment for donuts. -- Reason given: Insufficient payment for donuts..
    at evalmachine.<anonymous>:1:32
    at evalmachine.<anonymous>:2:48
    at sigintHandlersWrap (node:vm:262:12)
    at Script.runInContext (node:vm:133:14)
    at runScript (C:\Users\hp430G8\AppData\Roaming\npm\node_modules\truffle\build\webpack:\packages\core\lib\console.js:505:1)
    at Console.interpret (C:\Users\hp430G8\AppData\Roaming\npm\node_modules\truffle\build\webpack:\packages\core\lib\console.js:520:1)
    at bound (node:domain:433:15)
    at REPLServer.runBound [as eval] (node:domain:444:12)
    at REPLServer.onLine (node:repl:899:10)
    at REPLServer.emit (node:events:517:28)
    at REPLServer.emit (node:domain:489:12)
    at REPLServer.[ onLine] [as _onLine] (node:internal/readline/interface:423:12)
```

```
truffle(ganache)> await vendingMachine.purchase(1, {from: accounts[1], value: web3.utils.toWei('2', 'ether')});
{
  tx: '0x0623e2f7bc86f499e92c5602fe67b2e0665fecba32e4ac4ab4921b49d0944383',
  receipt: {
    transactionHash: '0x0623e2f7bc86f499e92c5602fe67b2e0665fecba32e4ac4ab4921b49d0944383',
    transactionIndex: 0,
    blockNumber: 2,
    blockHash: '0xf592ed7e26a887829d3434c9a52f02637e3cda6c3dad368a94c4a773b484ca79',
    from: '0x8f65f201ea8e42dda0e68de05489f95a027b7df2',
    to: '0xac0858aa4d49bfad823136fa217f1aab3cd486f5',
    cumulativeGasUsed: 51916,
    gasUsed: 51916,
    contractAddress: null,
    logs: [],
    logsBloom: '0x000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
00000000000000000000000000',
    status: true,
    effectiveGasPrice: 3287106841,
    type: '0x2',
    rawLogs: []
  },
  logs: []
}
truffle(ganache)> let buyerBalance = await vendingMachine.donutBalances(accounts[1]);
undefined
truffle(ganache)> console.log(buyerBalance.toString());
1
```

```
truffle(ganache)> await vendingMachine.changePrice(web3.utils.toWei('3', 'ether'), {from: accounts[0]});
{
  tx: '0x1a2d6ae7c5def9f1e5500fb9a44ddef913f9c1121957b30cdb7fbec5fc062e79',
  receipt: {
    transactionHash: '0x1a2d6ae7c5def9f1e5500fb9a44ddef913f9c1121957b30cdb7fbec5fc062e79',
    transactionIndex: 0,
    blockNumber: 3,
    blockHash: '0x408c1ac8036e6280d68bcb167790a51bdcd2d20cac566bcc85f7774fc8a4b736',
    from: '0xf7db058ea4c842b60a22664da737cac5cf474aea',
    to: '0xac0858aa4d49bfad823136fa217f1aab3cd486f5',
    cumulativeGasUsed: 28851,
    gasUsed: 28851,
    contractAddress: null,
    logs: [],
    logsBloom: '0x00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000',
    status: true,
    effectiveGasPrice: 3190238257,
    type: '0x2',
    rawLogs: []
  },
  logs: []
}
```

```
truffle(ganache)> await vendingMachine.changePrice(web3.utils.toWei('3', 'ether'), {from: accounts[1]});
Uncaught:
Error: VM Exception while processing transaction: revert Only the owner can change the price. -- Reason given: Only the owner can change the price..
    at evalmachine.<anonymous>:1:32
    at evalmachine.<anonymous>:2:48
    at sigintHandlersWrap (node:vm:262:12)
    at Script.runInContext (node:vm:133:14)
    at runScript (C:\Users\hp430G8\AppData\Roaming\npm\node_modules\truffle\build\webpack:\packages\core\lib\console.js:505:1)
    at Console.interpret (C:\Users\hp430G8\AppData\Roaming\npm\node_modules\truffle\build\webpack:\packages\core\lib\console.js:520:1)
    at bound (node:domain:433:15)
    at REPLServer.runBound [as eval] (node:domain:444:12)
    at REPLServer.onLine (node:repl:899:10)
    at REPLServer.emit (node:events:517:28)
    at REPLServer.emit (node:domain:489:12)
    at REPLServer.[_onLine] [as _onLine] (node:internal/readline/interface:423:12)
    at REPLServer.[_line] [as _line] (node:internal/readline/interface:894:18)
    at REPLServer.[_ttyWrite] [as _ttyWrite] (node:internal/readline/interface:1272:22)
    at REPLServer.self._ttyWrite (node:repl:994:9)
    at ReadStream.onkeypress (node:internal/readline/interface:271:20)
    at ReadStream.emit (node:events:517:28)
    at ReadStream.emit (node:domain:489:12)
    at emitKeys (node:internal/readline/utils:357:14)
    at emitKeys.next (<anonymous>) {
  code: -32000,
  data: {
    hash: null,
    programCounter: 625,
    result: '0x08c379a0000000000000000000000000000000000000000000000000000000000000002000000003700a0000000000000000000000000000000000000000000000000000000000000000244f6e6c792074686652
06f776e65722063616e206368616e676520746865207072696365e000000000000000000000000000000000000000000000000000000000000000000',
    reason: 'Only the owner can change the price.',
    message: 'revert'
  },
  reason: 'Only the owner can change the price.',
  hijackedStack: 'Error: VM Exception while processing transaction: revert Only the owner can change the price. -- Reason given: Only the owner can change the price..\n' +
    '    at C:\\Users\\hp430G8\\AppData\\Roaming\\npm\\node_modules\\truffle\\build\\webpack:\\packages\\provider\\wrapper.js:25:1\n' +
    '    at C:\\Users\\hp430G8\\AppData\\Roaming\\npm\\node_modules\\truffle\\build\\webpack:\\packages\\provider\\wrapper.js:166:1\n' +
    '    at C:\\Users\\hp430G8\\AppData\\Roaming\\npm\\node_modules\\truffle\\build\\webpack:\\node_modules\\web3-providers-http\\lib\\index.js:127:1\n' +
```

```
truffle(ganache)> let currentPrice = await vendingMachine.price;
undefined
truffle(ganache)> currentPrice
[Function (anonymous)] {
  call: [Function (anonymous)],
  sendTransaction: [Function (anonymous)],
  estimateGas: [Function (anonymous)],
  request: [Function (anonymous)]
}
truffle(ganache)> let currentPrice = await vendingMachine.price();
Uncaught SyntaxError: Identifier 'currentPrice' has already been declared
truffle(ganache)> currentPrice = await vendingMachine.price();
BN {
  negative: 0,
  words: [ 36438016, 8980157, 666, <1 empty item> ],
  length: 3,
  red: null
}
truffle(ganache)> console.log(currentPrice.toString())
300000000000000000
undefined
truffle(ganache)>
```

ACCOUNTS   BLOCKS   TRANSACTIONS   CONTRACTS   EVENTS   LOGS

SEARCH FOR BLOCK NUMBERS OR TX HASHES

CURRENT BLOCK	GAS PRICE	GAS LIMIT	HARDFORK	NETWORK ID	RPC SERVER	MINING STATUS	WORKSPACE
3	20000000000	6721975	MERGE	5777	HTTP://127.0.0.1:7545	AUTOMINING	QUICKSTART

SAVE   SWITCH

TX HASH   CONTRACT CALL
0×1a2d6ae7c5def9f1e5500fb9a44ddef913f9c1121957b30cdb7fbec5fc062e79

FROM ADDRESS   TO CONTRACT ADDRESS   GAS USED   VALUE
0×f7dB058Ea4C842B60A22664Da737CAC5cf474aea   0×AC0858aA4D49bFAd823136fA217F1AAb3CD486F5   28851   0

TX HASH   CONTRACT CALL
0×0623e2f7bc86f499e92c5602fe67b2e0665fecba32e4ac4ab4921b49d0944383

FROM ADDRESS   TO CONTRACT ADDRESS   GAS USED   VALUE
0×8f65f201EA8E42dDa0e68DE05489F95A027B7df2   0×AC0858aA4D49bFAd823136fA217F1AAb3CD486F5   51916   200000000000000000000

TX HASH   CONTRACT CREATION
0×3f82ed87dedaedd06b6b044df0ce3ecab8824616e42d3076a48fc0101ab425a8

FROM ADDRESS   CREATED CONTRACT ADDRESS   GAS USED   VALUE
0×f7dB058Ea4C842B60A22664Da737CAC5cf474aea   0×AC0858aA4D49bFAd823136fA217F1AAb3CD486F5   660116   0