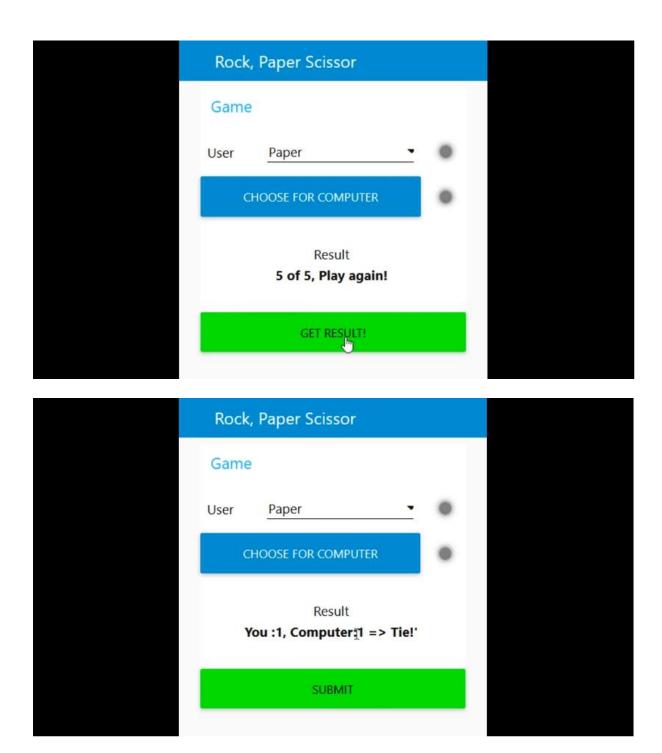
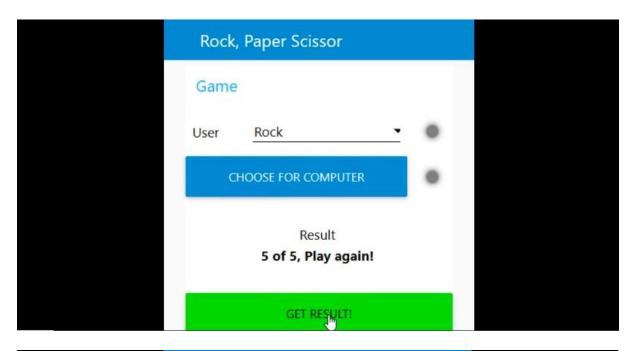
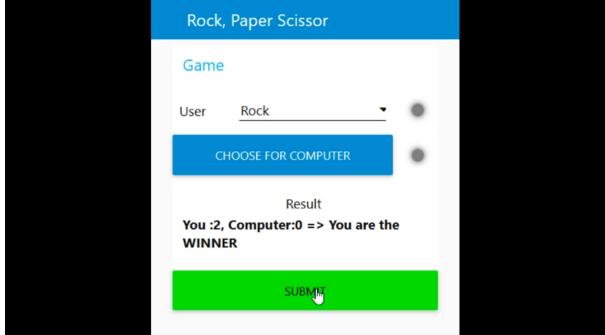
## **Project 2 - Solution**

Feel free to use the solution for the Project 2.







## Code:

```
[
    "id": "d7648a77e57f1f12",
    "type": "comment",
    "z": "fa7b1894aeffc3c4",
    "name": "Rock paper scissor",
```

```
"info": "",
  "x": 110,
  "y": 1460,
  "wires": []
},
{
  "id": "7b299a26db1cbc4f",
  "type": "ui_dropdown",
  "z": "fa7b1894aeffc3c4",
  "name": "",
  "label": "User",
  "tooltip": "",
  "place": "Select option",
  "group": "b5f945ab637f5863",
  "order": 1,
  "width": "5",
  "height": "1",
  "passthru": true,
  "multiple": false,
  "options": [
    {
       "label": "Rock",
       "value": "Rock",
       "type": "str"
    },
    {
       "label": "Paper",
       "value": "Paper",
```

```
"type": "str"
    },
    {
      "label": "Scissor",
      "value": "Scissor",
      "type": "str"
    }
  ],
  "payload": "",
  "topic": "topic",
  "topicType": "msg",
  "className": "",
  "x": 250,
  "y": 1720,
  "wires": [
    [
      "b4430b68284dbe4a"
    ]
  ]
},
  "id": "4b53557497496766",
  "type": "ui_button",
  "z": "fa7b1894aeffc3c4",
  "name": "",
  "group": "b5f945ab637f5863",
  "order": 3,
  "width": "5",
```

{

```
"height": "1",
    "passthru": false,
    "label": "Choose for Computer",
    "tooltip": "",
    "color": "",
    "bgcolor": "",
    "className": "",
    "icon": "",
    "payload": "",
    "payloadType": "str",
    "topic": "topic",
    "topicType": "msg",
    "x": 300,
    "y": 1660,
    "wires": [
      [
        "cd40657485b198b0"
      ]
    ]
  },
  {
    "id": "cd40657485b198b0",
    "type": "function",
    "z": "fa7b1894aeffc3c4",
    "name": "function 79",
    "func": "msg.payload = Math.floor(Math.random()*3);\nvar x;\nif (msg.payload ==
0)\n{\n msg.payload = 'Rock';\n}\nelse if (msg.payload == 1)\n{\n msg.payload =}
'Paper';\n}\nelse\n{\n msg.payload = 'Scissor';\n}\nflow.set('computer',
msg.payload);\nmsg.payload = true;\nreturn msg;",
```

```
"outputs": 1,
  "timeout": 0,
  "noerr": 0,
  "initialize": "",
  "finalize": "",
  "libs": [],
  "x": 550,
  "y": 1660,
  "wires": [
    [
       "15145b3e2520cc89"
    ]
  ]
},
{
  "id": "74c1a41f1bc470c2",
  "type": "ui_text",
  "z": "fa7b1894aeffc3c4",
  "group": "b5f945ab637f5863",
  "order": 5,
  "width": "6",
  "height": "2",
  "name": "",
  "label": "Result",
  "format": "",
  "layout": "col-center",
  "className": "",
  "style": false,
```

```
"font": "Arial, Arial, Helvetica, sans-serif",
  "fontSize": "14",
  "color": "#000000",
  "x": 950,
  "y": 1500,
  "wires": []
},
{
  "id": "df1461c3e5ca32c8",
  "type": "ui_button",
  "z": "fa7b1894aeffc3c4",
  "name": "",
  "group": "b5f945ab637f5863",
  "order": 6,
  "width": 0,
  "height": 0,
  "passthru": false,
  "label": "",
  "tooltip": "",
  "color": "black",
  "bgcolor": "lime",
  "className": "",
  "icon": "",
  "payload": "",
  "payloadType": "str",
  "topic": "topic",
  "topicType": "msg",
  "x": 530,
```

```
"y": 1580,
  "wires": [
    [
       "c79425032d7540f2"
    ]
  ]
},
{
  "id": "b4430b68284dbe4a",
  "type": "function",
  "z": "fa7b1894aeffc3c4",
  "name": "function 80",
  "func": "flow.set('user',msg.payload);\nmsg.payload = true;\nreturn msg;",
  "outputs": 1,
  "timeout": 0,
  "noerr": 0,
  "initialize": "",
  "finalize": "",
  "libs": [],
  "x": 550,
  "y": 1720,
  "wires": [
    [
       "bb1b75ac9021346d"
    ]
  ]
},
{
```

```
"id": "15145b3e2520cc89",
"type": "ui_led",
"z": "fa7b1894aeffc3c4",
"order": 4,
"group": "b5f945ab637f5863",
"width": "1",
"height": "1",
"label": "",
"labelPlacement": "left",
"labelAlignment": "left",
"colorForValue": [
  {
    "color": "#808080",
    "value": "false",
    "valueType": "bool"
  },
  {
    "color": "#00ff00",
    "value": "true",
    "valueType": "bool"
  }
],
"allowColorForValueInMessage": false,
"shape": "circle",
"showGlow": true,
"name": "",
"x": 1130,
"y": 1660,
```

```
"wires": []
},
{
  "id": "0ba51547b83b6c49",
  "type": "function",
  "z": "fa7b1894aeffc3c4",
  "name": "function 82",
  "func": "msg.payload = false;\nreturn msg;",
  "outputs": 1,
  "timeout": 0,
  "noerr": 0,
  "initialize": "",
  "finalize": "",
  "libs": [],
  "x": 950,
  "y": 1580,
  "wires": [
    [
       "15145b3e2520cc89",
       "bb1b75ac9021346d"
    ]
  ]
},
{
  "id": "c79425032d7540f2",
  "type": "function",
  "z": "fa7b1894aeffc3c4",
  "name": "function 83",
```

```
"func": "var computer = flow.get('computer')||";\nvar user = flow.get('user')||";\nvar
computerScore = flow.get('computerScore');\nvar userScore = flow.get('userScore');\nvar
break;\n }\n else if (user === 'Paper')\n {\n
(user === 'Rock')\n {\n}
                                                                          userScore =
userScore + 1;\n
                   break;\n }\n else if (user === 'Scissor') \n {\n
                                                                    computerScore =
computerScore + 1;\n
                        break;\n \n\n case 'Paper':\n
                                                          if (user === 'Paper') {\n
break;\n
                   else if (user === 'Scissor') {\n
                                                   userScore = userScore + 1;\n
           }\n
break;\n
            }\n
                  else if (user === 'Rock') {\n
                                                 computerScore = computerScore +
1;\n
         break;\n
                     }\n\n case 'Scissor':\n
                                               if (user === 'Scissor') {\n
}\n
      else if (user === 'Rock') {\n
                                     userScore = userScore + 1;\n
                                                                     break;\n
                                                                                 }\n
else if (user === 'Paper') {\n
                               computerScore = computerScore + 1;\n
}\n}\n count = count + 1;\n flow.set('count', count);\n msg.payload = `5 of ${count},
Play again!';\n flow.set('count', count);\n flow.set('computerScore', computerScore);\n
flow.set('userScore', userScore);\n return msg;\n}\n\nif (count == 5)\n { \n
(userScore > computerScore)\n
                                {\n
                                         msg.payload = `You :${userScore},
Computer:${computerScore} => You are the WINNER`;\n
                                                              else if (userScore <
                                                       }\n
                             msg.payload = `You :${userScore},
computerScore)\n
                    {\n
Computer:${computerScore} => Computer is the WINNER`;\n
                                                                   else\n
                                                                             {\n
msg.payload = `You :${userScore}, Computer:${computerScore} => Tie!'`;\n
                                                                        }\n
                                                                               count
= count + 1;\n
                flow.set('count', count);\n
                                            return msg;\n \\ncount = count +
1;\nflow.set('count', count);\nreturn msg;\n",
```

```
]
  ]
},
{
  "id": "689a58bcb74f37e5",
  "type": "inject",
  "z": "fa7b1894aeffc3c4",
  "name": "Initialize variables",
  "props": [
    {
       "p": "payload"
    },
    {
       "p": "topic",
       "vt": "str"
    }
  ],
  "repeat": "",
  "crontab": "",
  "once": true,
  "onceDelay": 0.1,
  "topic": "",
  "payload": "",
  "payloadType": "date",
  "x": 130,
  "y": 1500,
  "wires": [
    [
```

```
"f406095add608db1",
         "470cee0b089d1994"
      ]
    ]
  },
  {
    "id": "f406095add608db1",
    "type": "function",
    "z": "fa7b1894aeffc3c4",
    "name": "function 84",
    "func":
"flow.set('user','');\nflow.set('computer','');\nflow.set('userScore',0);\nflow.set('computerSco
re',0);\nflow.set('count',0);\nmsg.payload = \"Let's play!\";\nreturn msg;",
    "outputs": 1,
    "timeout": 0,
    "noerr": 0,
    "initialize": "",
    "finalize": "",
    "libs": [],
    "x": 730,
    "y": 1500,
    "wires": [
      [
         "74c1a41f1bc470c2"
      ]
    ]
  },
  {
    "id": "bb1b75ac9021346d",
```

```
"type": "ui_led",
"z": "fa7b1894aeffc3c4",
"order": 2,
"group": "b5f945ab637f5863",
"width": "1",
"height": "1",
"label": "",
"labelPlacement": "left",
"labelAlignment": "left",
"colorForValue": [
  {
    "color": "#808080",
    "value": "false",
    "valueType": "bool"
  },
  {
    "color": "#00ff00",
    "value": "true",
    "valueType": "bool"
  }
],
"allowColorForValueInMessage": false,
"shape": "circle",
"showGlow": true,
"name": "",
"x": 1130,
"y": 1720,
"wires": []
```

```
},
        {
                  "id": "470cee0b089d1994",
                  "type": "function",
                  "z": "fa7b1894aeffc3c4",
                  "name": "function 85",
                  "func": "var count = flow.get('count')||0;\nif (count < 5)\n\{\n msg.topic = 'Submit';\n
return msg;\n}\nelse if (count == 5)\n{\n msg.topic = 'Get result!';\n return
msg;\n}\nest('user', '');\n flow.set('computer', '');\n flow.set('userScore', '');\n flow.set('userSc
0);\n flow.set('computerScore', 0);\n flow.set('count', 0);\n msg.topic = \"Submit\";\n
return msg;\n}",
                  "outputs": 1,
                  "timeout": 0,
                  "noerr": 0,
                  "initialize": "",
                  "finalize": "",
                  "libs": [],
                  "x": 330,
                  "y": 1580,
                  "wires": [
                          [
                                   "df1461c3e5ca32c8"
                          1
                 1
        },
        {
                  "id": "b5f945ab637f5863",
                  "type": "ui_group",
                  "name": "Game",
```

```
"tab": "59b3431fe2716354",
    "order": 1,
    "disp": true,
    "width": "6",
    "collapse": false,
    "className": ""
  },
  {
    "id": "59b3431fe2716354",
    "type": "ui_tab",
    "name": "Rock, Paper Scissor",
    "icon": "dashboard",
    "order": 6,
    "disabled": false,
    "hidden": false
  }
]
```