Practical – 7

AIM: Demonstrate ES6 New Syntax and Test Browser Compatibility.

1) ARROW FUNCTION

Source Code:

OLD SYNTAX:

```
X File Edit Selection View Go Run Terminal Help
                                                                                oldarrow.html - WTarrow - Visual
                           ⋈ Welcome
                                          oldarrow.html X
仚
                            ♦ oldarrow.html > ♦ html > ♦ script
     ∨ WTARROW
                              1 <!DOCTYPE HTML>
      oldarrow.html
Q
₽
                                  <script>
                                  console.log("DO MULTIPLICATION");
品
                                 let mul = function (x, y) {
                                  return x * y;
console.log(mul(50, 3));
```

NEW SYNTAX:

```
🔀 File Edit Selection View Go Run Terminal Help
                                                                                    oldarrow.html - W
                            ⋈ Welcome
                                             oldarrow.html X
       EXPLORER
仚

∨ WTARROW

                              ♦ oldarrow.html > ♦ html
                                    <!DOCTYPE HTML>
       oldarrow.html
                                    <tittle>
₽
                                    <html>
                                    <script>
                                    console.log("DO MULTIPLICATION");
留
                                    let mul = (x, y) \Rightarrow x * y;
                                    console.log(mul(50, 3));
```

21JT152 27

Output:

```
DO MULTIPLICATION
150
```

2)DESTRUCTURING

2.1) DESTRUCTURING ARRAYS

SOURCE CODE:

OLD SYNTAX:

```
🔀 File Edit Selection View Go Run Terminal Help
                                                                            olddestructuringarray.html - WTa
       EXPLORER
                           ♦ olddestructuringarray.html X
仚
                            ♦ olddestructuringarray.html > ♦ html > ♦ script

✓ WTARROW

      o newarrow.html
                             1 <!DOCTYPE HTML>
      onewdestructuringarra...
                                  <tittle>
      oldarrow.html
      olddestructuringarray...
4
                                   <script>
                                  console.log("DETAILS ABOUT ELECTRONICS");
品
                                  const electronics = ['DELL', 'APPLE'];
                                  const laptop = electronics[0];
const mobile = electronics[1];
                                   console.log(laptop);
                                   console.log(mobile);
                                   </body>
```

NEW SYNTAX:

```
X File Edit Selection View
                             Go Run Terminal Help
                                                                                 newdestructuringarra
                                                           o newdestructuringarray.html ×
仚
       EXPLORER

∨ WTARROW

    newdestructuringarray.html > 
    html

                                     <!DOCTYPE HTML>
       onewarrow.html
       newdestructuringarra...
                                     <tittle>
       oldarrow.html
مړ
       olddestructuringarray...
                                      <script>
                                     console.log("DETAILS ABOUT ELECTRONICS");
RP
                                     const electronics = ['DELL', 'APPLE'];
                                     const [laptop,mobile] = electronics;
console.log(laptop);
                                      console.log(mobile);
6
                                     </body>
                                15
                                      </html>
```

Output:

```
DETAILS ABOUT ELECTRONICS

DELL

APPLE
```

2.2) DESTRUCTURING OBJECTS

OLD SYNTAX:

```
··· olddestucturingobject.html × olddestructuringarray.html
        EXPLORER
ф
                                 olddestucturingobject.html >  html

✓ WTARROW

       o newdestructuringarra...
مړ
4
                                        const oneelectonic = {
                                       brand: 'DELL',
model: 'Core-i5',
type: 'laptop',
year: 2022,
                                         myDevice(oneelectonic);
                                         function myDevice(electronics) {
                                         const message = 'My ' + electronics.type + ' is a ' + electronics.color + ' ' +
electronics.brand + ' ' + electronics.model + '.';
                                         console.log(message);
                                         </html>
```

Output:

```
My laptop is a black DELL Core-i5.
Live reload enabled.
```

NEW SYNTAX:

Output:

```
My laptop is a black coloured DELL Core-i5.
```

21JT152 30

3) SPREAD OPERATOR

OLD SYNTAX:

```
| Fig. | Edit | Selection | View | Go | Run | Terminal | Help | Okdopred.html - Wilarrow - Visual Studio Code | Co
```

NEW SYNTAX:

Output:

My laptop is a silver coloured HP core i5.

REST OPERATOR:

SOURCE CODE:

```
File Edit Selection
                   View Go Run Terminal
                                       Help
                                                                      reset
仚
      EXPLORER
                         ∨ WTARROW
                         <!DOCTYPE html>
      newarrow.html
                               <html>
      newdestructuringarra...
     newdestructuringobje...
مړ
                               <script>
      newspred.html
                               function mul(...args) {
     oldarrow.html
                               let mul = 1;
      olddestructuringarray...
                               for (let arg of args) mul += arg;
      olddestucturingobject...
                               return mul;
      oldspred.html
     resetoperator.html
                               let n = mul(2, 6, 10, 12, 30, 52);
console.log(n);
                          11
                               </script>
                          12
                               </body>
                          13
                               </html>
```

Output:

```
113
```

Conclusion:

From this practical I came to know the new features of the ES6 and their advantages over the traditional methods followed in java script