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DEPT : ELECTRICAL AND ELETRONICS ENGINEERING

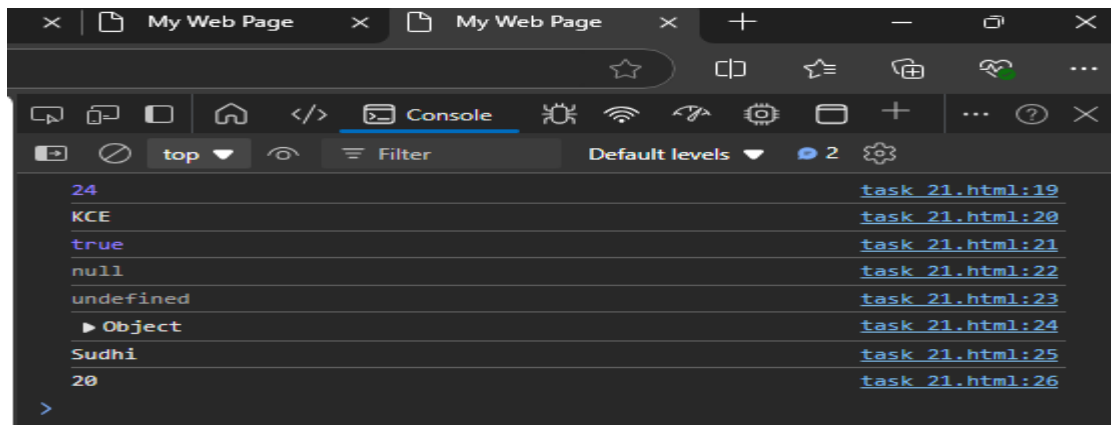
MERN STACK TASK 21-30

TASK 21 : Create variables of different data types (e.g., string, number, boolean, null, undefined, object).

PROGRAM :

```
<!DOCTYPE html>
<html>
  <head>
    <title>
      My Web Page
    </title>
  </head>
  <body>
    <script>
      let a = 24;
      let b = "KCE";
      let c = true;
      let d = null;
      let e ;
      let obj = {
        name : 'Sudhi',
        age : "20",
      } ;
      console.log(a);
      console.log(b);
      console.log(c);
      console.log(d);
      console.log(e);
      console.log(obj);
      console.log(obj.name);
      console.log(obj.age);
    </script>
  </body>
</html>
```

Output :

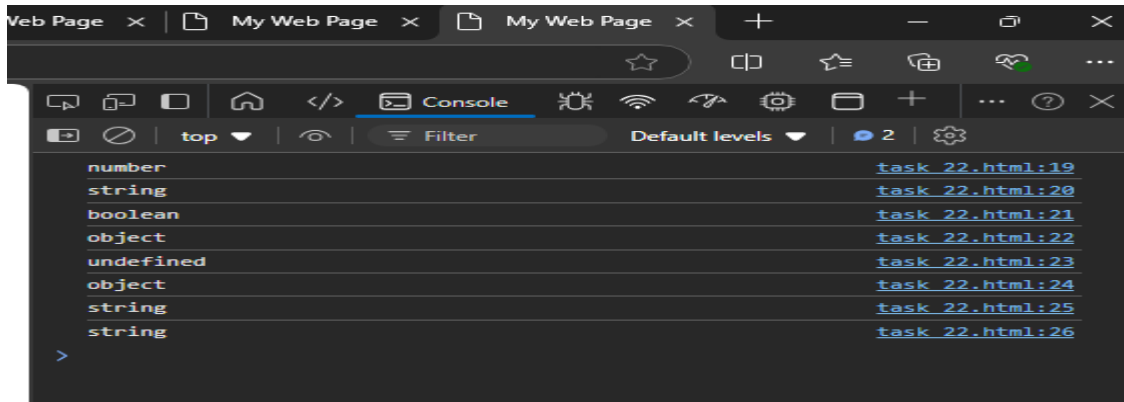


TASK 22 : Use the typeof operator to determine the type of various variables.

Program :

```
<!DOCTYPE html>
<html>
  <head>
    <title>
      My Web Page
    </title>
  </head>
  <body>
    <script>
      let a = 24;
      let b = "KCE";
      let c = true;
      let d = null;
      let e ;
      let obj = {
        name : 'Sudhi',
        age : "20",
      } ;
      console.log(typeof(a));
      console.log(typeof(b));
      console.log(typeof(c));
      console.log(typeof(d));
      console.log(typeof(e));
      console.log(typeof(obj));
      console.log(typeof(obj.name));
      console.log(typeof(obj.age));
    </script>
  </body>
</html>
```

Output :

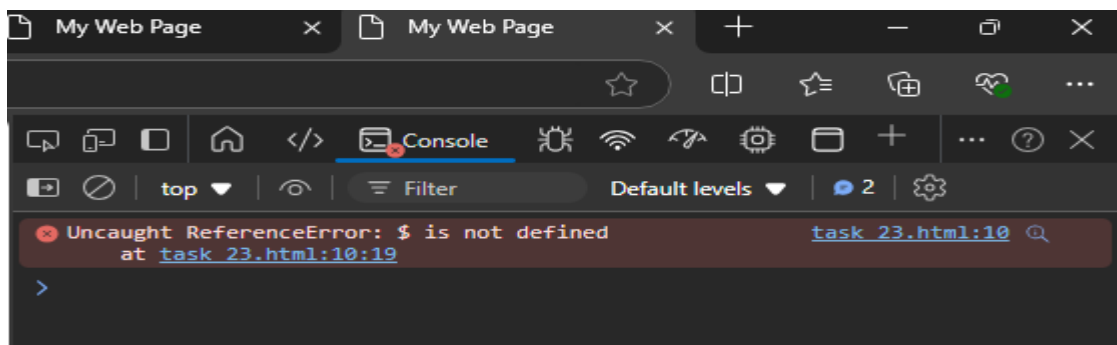


TASK 23 : Declare a symbol and print its type.

Program :

```
<!DOCTYPE html>
<html>
  <head>
    <title>
      My Web Page
    </title>
  </head>
  <body>
    <script>
      let d = $;
      console.log(typeof(d));
    </script>
  </body>
</html>
```

Output :

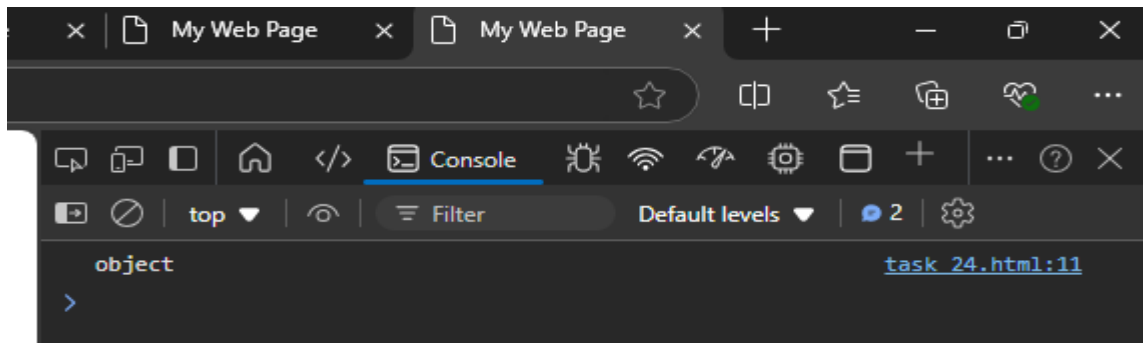


TASK 24 : Assign the value null to a variable and check its type using typeof.

Program :

```
<!DOCTYPE html>
<html>
  <head>
    <title>
      My Web Page
    </title>
  </head>
  <body>
    <script>
      let d = null;
      console.log(typeof(d));
    </script>
  </body>
</html>
```

Output :



TASK 25 : Differentiate between declaring a variable using var and let in terms of scope.

Program :

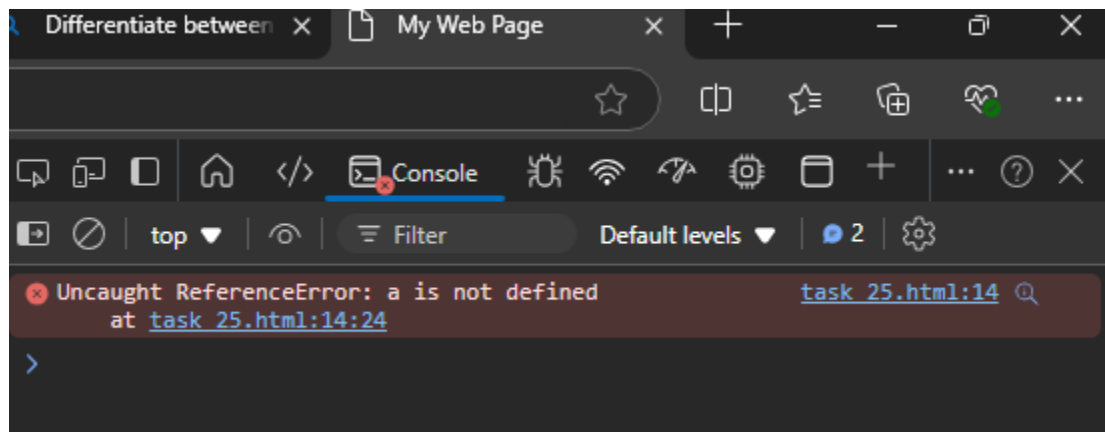
```
<!DOCTYPE html>
<html>
  <head>
    <title>
      My Web Page
    </title>
  </head>
  <body>
```

```

<script>
  let d = 24;
  if(d > 0){
    let a = 2;
  }
  console.log(a);
  var b = 14;
  if(b > 0){
    var c = 3;
  }
  console.log(c);
</script>
</body>
</html>

```

Output :



TASK 26 : Convert a string to a number using both implicit and explicit conversion.

Program :

```

<!DOCTYPE html>
<html>
  <head>
    <title>
      My Web Page
    </title>
  </head>
  <body>
    <script>
      let result;
      result = Number("5");
      console.log(result, '-', typeof(result));
      let res;
    </script>
  </body>
</html>

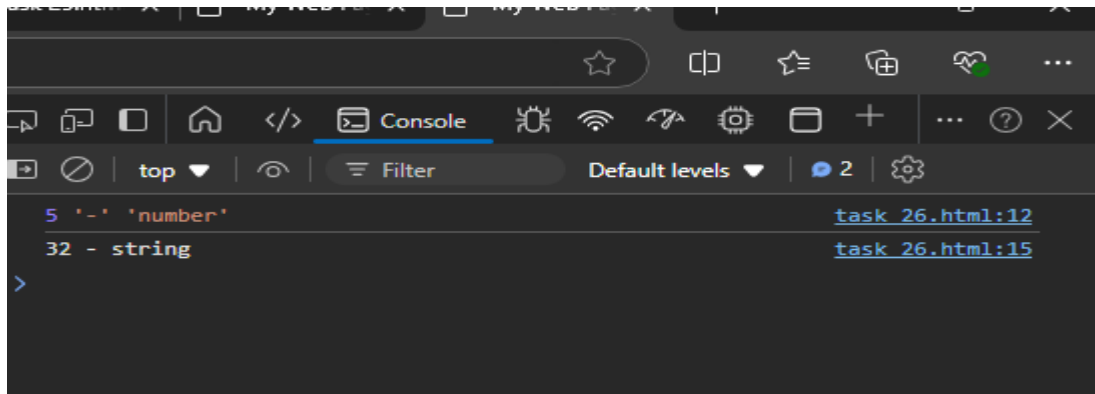
```

```

        res = "3" + 2;
        console.log(res, "-", typeof(res));
    </script>
</body>
</html>

```

Output :



TASK 27 : Convert a boolean to a string and vice versa.

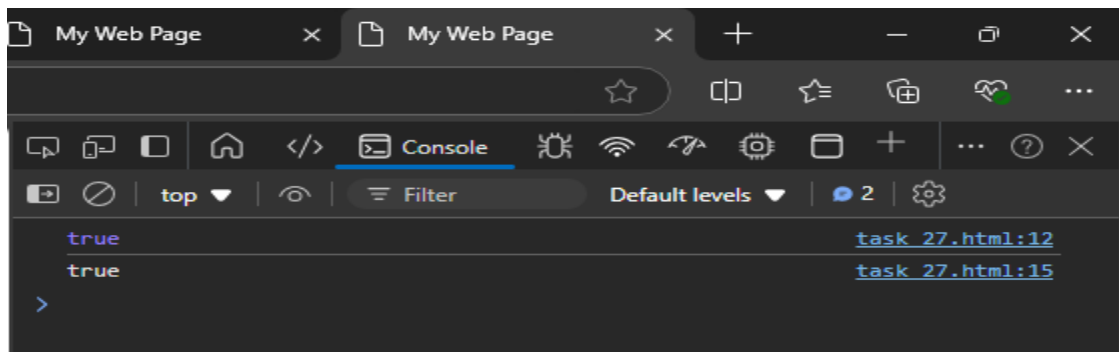
Program :

```

<!DOCTYPE html>
<html>
  <head>
    <title>
      My Web Page
    </title>
  </head>
  <body>
    <script>
      let a = "kce";
      let result = (a === "kce");
      console.log(result);
      let b = true;
      let res = b.toString(b);
      console.log(res);
    </script>
  </body>
</html>

```

Output :

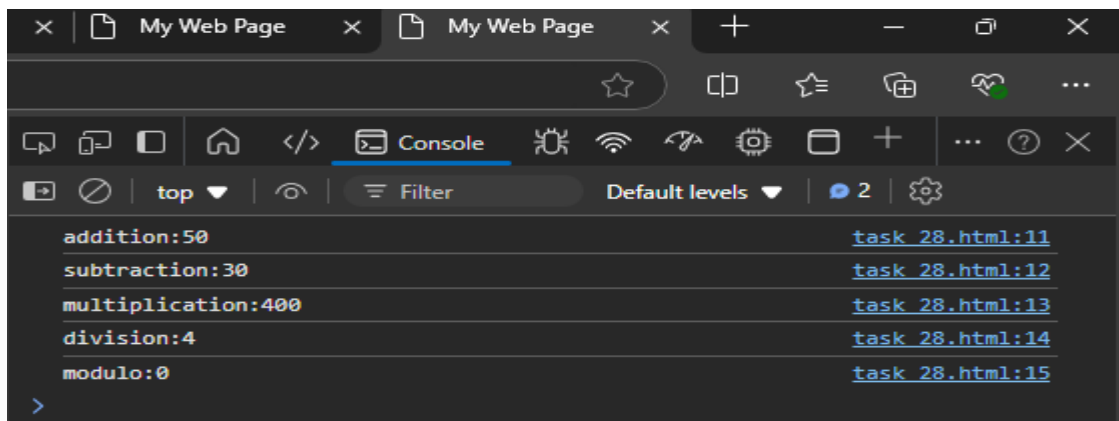


TASK 28 : Practice basic arithmetic operators (+, -, *, /, %).

Program :

```
<!DOCTYPE html>
<html>
  <head>
    <title>
      My Web Page
    </title>
  </head>
  <body>
    <script>
      let a=40,b=10;
      console.log("addition:"+(a+b));
      console.log("subtraction:"+(a-b));
      console.log("multiplication:"+(a*b));
      console.log("division:"+(a/b));
      console.log("modulo:"+(a%b));
    </script>
  </body>
</html>
```

Output :

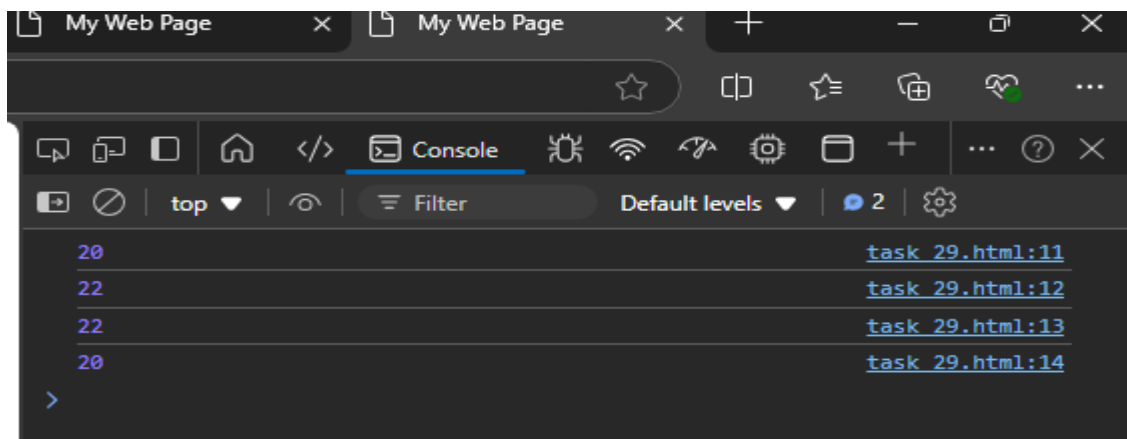


TASK 29 : Practice basic arithmetic operators (+, -, *, /, %).

Program :

```
<!DOCTYPE html>
<html>
  <head>
    <title>
      My Web Page
    </title>
  </head>
  <body>
    <script>
      let a=20;
      console.log(a++);
      console.log(++a);
      console.log(a--);
      console.log(--a);
    </script>
  </body>
</html>
```

Output :



TASK 30 : Explore the precedence of operators by combining multiple operators in a single expression.

Program :

```
<!DOCTYPE html>
<html>
  <head>
```



```
<title>
  My Web Page
</title>
</head>
<body>
  <script>
    var a = 4;
    var res =+ a++ + ++a;
    console.log(res);
  </script>
</body>
</html>
```

Output :

