

Task 1

Code

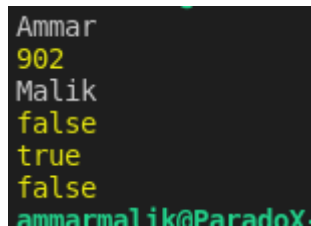
```
var name = "Ammar";
var age = 902;
var lastName = "Malik";

var biographyData = {name, age, lastName};

console.log(biographyData.name)
console.log(biographyData.age)
console.log(biographyData.lastName)

console.log(biographyData.name === biographyData.age);
console.log(typeof(biographyData.name) === typeof(biographyData.lastName));
console.log(typeof(biographyData.name) === typeof(biographyData.age));
```

Screenshots



```
Ammar
902
Malik
false
true
false
ammarmalik@ParadoX-
```

Task 2

Code

```
function test1(){
var a = "a";
console.log(a)
if (true){
console.log(a)
var b = "b";
console.log(b);
}
console.log(b);
}

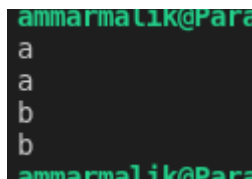
function test2(){
let a = "a";
console.log(a)
if (true){
```

```
console.log(a)
let b = "b";
console.log(b);
}
console.log(b);
}
```

```
function test3(){
const a = "a";
console.log(a)
if (true){
console.log(a)
const b = "b";
console.log(b);
}
console.log(b);
}
```

```
test1()
// fail
// test2()
// fail
// test3()
```

Screenshots



```
ammarmalik@Para
a
a
b
b
ammarmalik@Para
```

Task 3

Code

```
let A1 = [5, "3", "hello", 3.5, true]
let A2 = ["ok", 5, 6, 7, 2.3, false, "7"]
```

```
console.log("A1 after copy")
A1.copyWithin(2, 0, 2);
console.log(A1)
```

```
console.log("A2 after copy")
A2.copyWithin(3, 0);
```

```
console.log(A2)
```

```
console.log(A1.entries())
```

```
console.log(A2.entries())
```

```
console.log("Fill with 3 prams")
```

```
A1.fill(4, 2, 4);
```

```
console.log(A1);
```

```
console.log("Fill with 2 prams")
```

```
A2.fill(4, 2);
```

```
console.log(A2);
```

```
console.log("Fill with 1 pram")
```

```
A1.fill(4);
```

```
console.log(A1);
```

```
A3 = [5, 4, 2, 4, 2, 4, 4]
```

```
console.log("Result of find function")
```

```
findRes = A3.find(value => value >= 4)
```

```
console.log(findRes)
```

```
console.log("Result of filter function")
```

```
filterRes = A3.filter(value => value >= 4)
```

```
console.log(filterRes)
```

```
console.log("Result of map function")
```

```
mapRes = filterRes.map(value => value *3)
```

```
console.log(mapRes)
```

Screenshots

```
ammarmalik@Paradox-Laptop:~/Programming/University
A1 after copy
[ 5, '3', 5, '3', true ]
A2 after copy
[
  'ok', 5, 6,
  'ok', 5, 6,
  7
]
Object [Array Iterator] {}
Object [Array Iterator] {}
Fill with 3 prams
[ 5, '3', 4, 4, true ]
Fill with 2 prams
[
  'ok', 5, 4, 4,
  4, 4, 4
]
Fill with 1 pram
[ 4, 4, 4, 4, 4 ]
Result of find function
5
Result of filter function
[ 5, 4, 4, 4, 4 ]
Result of map function
[ 15, 12, 12, 12, 12 ]
```