

# Kulsoom Khurshid

## SP20-BCS-044

### Task #1:

```
1 var bio = 'My name is Kulsoom Khurshid. I am a student of Comsats University Islamabad. I\'m 21 years old.';
2 var bioObject = {firstName:'Kulsoom', lastName:'Khurshid', University:'Comsats University Islamabad', age:21};
3 var bioMultiple = [
4   {firstName:'Sabah', lastName:'Khurshid', University:'Comsats University Islamabad', age:24},
5   {firstName:'Kulsoom', lastName:'Khurshid', University:'Comsats University Islamabad', age:21},
6   {firstName:'Labeeka', lastName:'Hameed', University:'Comsats University Islamabad', age:22}
7 ]
8 console.log(bio);
9 console.log(bioObject.firstName);
10 console.log(bioObject.lastName);
11 console.log(bioObject.University);
12 console.log(bioObject.age);
13 console.log(Object.keys(bioObject).length);
14 if(bioObject.age > 20)
15   console.log('Mature');
16 else
17   console.log('Teenager');
18
19 for(var i = 0; i < Object.keys(bioMultiple).length; i++){
20   console.log(bioMultiple[i]);
21 }
22
```

My name is Kulsoom Khurshid. I am a student of Comsats University Islamabad. I'm 21 years old.

Kulsoom

Khurshid

Comsats University Islamabad

21

4

Mature

```
{
  firstName: 'Sabah',
  lastName: 'Khurshid',
  University: 'Comsats University Islamabad',
  age: 24
}
```

#### Output

```
{
  firstName: 'Kulsoom',
  lastName: 'Khurshid',
  University: 'Comsats University Islamabad',
  age: 21
}
{
  firstName: 'Labeeka',
  lastName: 'Hameed',
  University: 'Comsats University Islamabad',
  age: 22
}
```

[Execution complete with exit code 0]

## Task #2:

```
1 let prime = [2,3,5,7,11,13];
2 var a;
3 for(var i = 0; i < prime.length; i++)
4     a = prime[i];
5
6 a++;
7 for(var j = 2; j < a; j++){
8     if(a % j == 0){
9         a++;
10        j=2;
11    }
12
13 }
14 console.log(a+' is the next prime number');
15 prime.push(a);
16 console.log(prime);
17
```

## Output

17 is the next prime number

```
[
  2,  3,  5,  7,
  11, 13, 17
]
```

[Execution complete with exit code 0]

## Task #3:

```
1 var x = prompt('Enter value of x: ');
2 var y = prompt('Enter value of y: ');
3 var z = prompt('Enter value of z(should be greater than x and y): ');
4 var num=[];
5 for(var i = 2; i < z; i++){
6     if(i%x == 0 || i%y == 0)
7         num.push(i);
8 }
9 var sum =0;
10 for(var i = 0; i < num.length; i++){
11     sum += num[i];
12 }
13 console.log('Sum of '+x+' and '+y+' multiples = '+sum);
14 |
```

Sum of 3 and 5 multiples = 23

[Execution complete with exit code 0]

#### **Task #4:**

```
1 let a = Math.round();
2 let b = Math.round(4.7);
3 let c = Math.round(4.4);
4 let d = Math.round(4.7, 4.4);
5 console.log(a);
6 console.log(b);
7 console.log(c);
8 console.log(d);|
```

#### **Output**

NaN

5

4

5

[Execution complete with exit code 0]

## Task #5

```
1 let a = Math.abs('-1');
2 let b = Math.abs(-2);
3 let c = Math.abs(null);
4 let d = Math.abs('');
5 let e = Math.abs([]);
6 let f = Math.abs([5,9]);
7 let g = Math.abs({});
8 let h = Math.abs('Kulsoom');
9 let i = Math.abs();
10
11 console.log('Absolute');
12 console.log(a);
13 console.log(b);
14 console.log(c);
15 console.log(d);
16 console.log(e);
17 console.log(f);
18 console.log(g);
19 console.log(h);
20 console.log(i);
21
22 let j = Math.ceil(-1.09);
23 let k = Math.ceil(-5);
24 let l = Math.ceil(-0.54);
25 let m = Math.ceil(-0);
26 let n = Math.ceil(0);
27 let o = Math.ceil(3);
28 let p = Math.ceil(0.7);
29 let q = Math.ceil(1.006);
```

```
console.log('Ceil');
console.log(j);
console.log(k);
console.log(l);
console.log(m);
console.log(n);
console.log(o);
console.log(p);
console.log(q);
```

```
let s = Math.floor(-1.09);
let t = Math.floor(-5);
let u = Math.floor(-0.54);
let v = Math.floor(-0);
let w = Math.floor(0);
let x = Math.floor(3);
let y = Math.floor(0.7);
let z = Math.floor(1.006);
```

```
console.log('Floor');
console.log(s);
console.log(t);
console.log(u);
console.log(v);
console.log(w);
console.log(x);
console.log(y);
console.log(z);
```

## Output

Absolute

1

2

0

0

0

NaN

NaN

NaN

NaN

Ceil

-1

-5

-0

-0

0

3

1

2

Floor

-2

-5

-1

-0

0

3

0

1

[Execution complete with exit code 0]

## Task #6

```
1 var a = 5;
2 let b = 7;
3 console.log('value of a = '+a);
4 console.log('value of b = '+b);
5 const c = 10;
6 if(true){
7     var a = 3;
8     let b = 9;
9     console.log('value of a = '+a);
10    console.log('value of b = '+b);
11    console.log('value of c = '+c);
12 }
13 console.log('value of a = '+a);
14 console.log('value of b = '+b);
```

## Output

```
value of a = 5
value of b = 7
value of a = 3
value of b = 9
value of c = 10
value of a = 3
value of b = 7
```

[Execution complete with exit code 0]