

1) How will you access Sophia's secondary school location?

```
let data = {
  Sophia: {
    id: 33,
    study: [
      {
        primary: [
          { school_name: "ABC primary school" },
          { location: "Peters burg" }
        ],
      },
      {
        secondary: [
          { school_name: "ABC secondary school" },
          { location: "St Lorence" }
        ],
      },
    ],
  },
}
```

2) How will you get the output [Advanced - uses 2D matrix concept]

a) level-2

b) 72.8621

[

Note: resources for 2D array:

=====

1) anisul islam 2D array

2) <https://www.freecodecamp.org/news/javascript-2d-arrays/>

checkpoints:

=====

1) Just know what is 2D array

2) how to access an element in 2D array

Then you will be able to do this task.

]

```

let data =
[
  {
    "pHeroCourses": {
      "course-x": "web development"
    }
  },
  {
    "pHeroCourses": {
      "course-y": "phitron"
    }
  },
  {
    "pHeroCourses": {
      "course-z": "acc"
    }
  },
  {
    "pHeroCourses": {
      "course-xyz": "level-2"
    },
    "locationField": {
      "en-US": {
        "lat": 19.28563,
        "lon": 72.8691
      }
    }
  }
]

```

3) How will you get the output

a) abc

b) xyz

```

let activities = {
  activity1 : [
    {
      name : "listen on spotify",

```

```

        song_list: {
            song_1 : "abc",
            song_2 : "bcd"
        },
        id : 1
    },
    {
        name : "listen music through bot",
        song_list: {
            song_1 : "wxy",
            song_2 : "xyz"
        },
        id : 2
    }
]
}

```

4) How will you display

a) Petersburg

b) Herry

```

let students = {

    2222: {
        name: "Jack",
        section: "C",
        class: "IX",
        address: {
            "building no": 12,
            "street" : "St. Jonson",
            "city" : "Petersburg",
            "country" : "UK"
        }
    },

    3333: {
        name: "Herry",
        section: "D",
        class : "X",
        address: {

```

```

        "building no" : 85,
        "street" : "DC road",
        "city" : "Kachukhet",
        "country" : "Bangladesh"
    }
}
}

```

- 5) How will you display
- a) programming er coddogosti
 - b) VW
 - c) Bangladesh

```

let instructor = {
  name: "Jhankar Mahbub",
  entrepreneur: true,
  additionalData: {
    writer: true,
    favoriteHobbies: ["travelling", "Coding"],
    books: ["programming er bolod to bos", "programming er
coddogosti"],
    moreDetails: {
      favoriteBasketballTeam: "XYZ",
      isYoungest: true,
      hometown: {
        city: "ABC",
        state: "VW",
      },
      countriesLivedIn: ["Bangladesh", "New York"]
    }
  }
}

```

- 6) How will you display
- a) B
 - b) D

```
const studentData = [
  {
    class: 10,
    details: [
      {
        studentId: '1',
        gradingDetails: [{ grade: 'A' }]
      },
      {
        studentId: '2',
        gradingDetails: [{ grade: 'B' }]
      }
    ]
  },
  {
    class: 11,
    details: [
      {
        studentId: 3,
        gradingDetails: [{ grade: 'B' }]
      },
      {
        studentId: 4,
        gradingDetails: [{ grade: 'D' }]
      }
    ]
  },
]
```

7) How will you display

a) habluder adda

b) Beginner

```
let data = {
  data:
    [
      {
        bookId: 1,
        bookDetails: {
```

```
        name: "habluder adda",
        category: "XYZ",
        price: "20$",
    },
    bookCategory: "Basic",
},
{
    bookId: 2,
    bookDetails: {
        name: "gobluder adda",
        category: "ABC",
        price: "40$",
    },
    bookCategory: "Beginner",
}
]
}
```