Q.1 What is javascript?
Ans. javascript ek framework language hai jo html page ko age badhane me madad karta hai yah non code block hai.

Q.2   Describe what is 'var', 'let', and 'const' and why we use them?
 Ans. var — yah variable hamara globle kam karta hai .
       Let —- yah variable hamara code block tak kam karta hai.
       Const —- yah variable code block tak kam karta hai aur isaki value change nahi hoti.

Q.3 In which category of datatype do the following go?
        a. Integer, String,...
        b. Object, Array,...
Ans. (a) let inputString = '1234567';
            console.log(typeof(inputString)); /// output string
      (b) let arr = [1,2,3,4,5,6],
            console.log(typeof(arr)); output object

Q.4 Perform the following steps by your cod?:
                [a. Array]
   i.Create an empty array.
   ii. Fill your 3 closest friends in that array.
   iii. Fill your 2 favorite enemies in the last of the array.
   iv. Take out that last 1 enemy to the front of the array.

Ans.

```
const arr = [];


arr.push("jay");
arr.push("amit");
arr.push("roshan")
console.log(arr);


arr.reverse();
console.log(arr)
```

[b .Object]

```
var dic = {};
dic["Name"] = "jay";
dic["LastName"] = "patel";
dic["Age"] = "25";
dic["Place"] = "Nav Gurukul";
dic["Agenda"] = "software engineering";
console.log(dic);



###############update array in object##########################
let dic = ["jay", "amit", "Roshan"];
let dict2 = {};
dict2["other"] = dic;
console.log(dict2)
```

Q.5 create one more arraynamed myArr and insert your name, the topic you are studying, and your favorite programming language,then merge the two arrays in one like the extend().method in python.

Ans.

```
Let arr1 = [1,2,3,4];
let arr2 = [5, 4, 3, 2];
var add = arr1.concat(arr2);
console.log(add);

####Two types solve this question
Const arr1 = [1,2,3,4];
Const arr2 = [5,4,3,2];
Const newArr = [...arr1,...arr2];
```

```
console.log(newArr);
```

Q.6 Write the advantages and disadvantages of thefollowing at least 2 each:
   a. Switch Statement.

Ans.

```
Const day = "Monday"
switch (day) {
   case "Monday":
       console.log("Aj poha banega");
       break;
   case "tuesday":
       console.log("Posta");
   case "wednesday":
   case "Friday":
       console.log("paneer banega");
   default:
       console.log("decide by foodhigin");
}
```

   b. Ternary Operator.

```
Const age = 23;
age >= 18 ? console.log("wine pi sakte hai") : ("tum water pine layak
ho.");



####Two type solve this problem
```

```
const  age = 25;
 let  drink ;
 If (age >=18){
     drink = "wine drink";
}else{
     drink = "water pina";
console.log(drink2);
```

Q.7 Compare two arrays and return a new array with any items only found in one of the two given arrays, but not both. Eg. [1, 2, 3], [2, 1, 4] ~ [3, 4].?

Ans.

```
var arr1 = [1, 2, 3];
var arr2 = [2, 1, 4];
var newArry = [...arr1, ...arr2]; #  [1,2,3,2,1,4]
var indices = [];
var a = newArry[2]; # 3
var b = newArry[5]; # 4
indices.push(a, b);# 3 , 4
console.log(indices);# [3,4]
```

Q.8 Write a function that takes two or more arrays and returns a new array of unique values in the order of the originally provided arrays. Eg. [1, 2, 3, 3], [2, 1, 4,1] ~ [1, 2, 3, 4].?

Ans.

```
Const arr3 = [1, 2, 3, 3];
const arr4 = [2, 1, 4, 1];
console.log([...new Set([...arr3, ...arr4])]);
```