DATA types in JS

```
1. What will be the output?
         let x=5;
         let y=x;
          x=10;
     console.log(x);
        Output:10;
     console.log(y);
         output:5;
2. What will be the output?
 let obj1={name :"Alice"};
      let obj2=obj1;
    obj1.name="Bob";
console.log(obj1.name);
 console.log(obj2.name);
         Output:
         Bob, Bob;
     3. let a="hello";
        let b=42;
        let c=true;
   let d={key :"value"};
        let e=null;
     let f=undefined;
  console.log(typeof a);
  console.log(typeof b);
  console.log(typeof c);
  console.log(typeof d);
  console.log(typeof e);
```

```
console.log(typeof f);
                             Output:
                             String
                             Number
                             Boolean
                             Object
                             object
                            undefined
                4. let numbers=[10,20,30,40,50];
              console.log(numbers[2]); //output:30;
              console.log(numbers[0]); //output:10;
     console.log(numbers[numbers.length-1]); //output:50;
             5. let fruits=["apple","banana","mango"];
                       fruits[1]="orange";
     console.log(fruits); //output :["apple","banana","mango"]
                      6.let matrix=[ [1,2,3],
                             [4,5,6],
                             [7,8,9]
              console.log(matrix[1][2]); //output: 6;
              console.log(matrix[2][0]); //output: 7;
      7. let person={ name:"John", age:25, city:"New york"};
           console.log(person.name); //Output: John;
             console.log(person.age); //Output: 25;
     8. let car={ make:"Toyota", model:"Corolla", year:2021};
           console.log(car["make"]); //Output:"Toyota";
          console.log(car["model"]); //Output:"Corolla"
9.let book={ title:"The Great Gatsby", author:"F. Scott Fitzgerald"};
                   book.author="Anonymous";
        console.log(book.author); //Output: Anonymous;
```

##