Q3

```
const arr = [1,2,3,4,5,6,7,8,9,10];
const sum = arr.reduce((acc, val) => acc + val);
var mean=sum/arr.length;
console.log("mean :",mean);
const { length: num } = arr;
let variance = 0;
   arr.forEach(arr => {
      variance += ((arr - mean) * (arr - mean));
   });
console.log("variance ",variance/arr.length);
```

Q4

```
 class productId
 {
        constructor( productId, ProductName,Productprice)
        {
               this.productId=productId;
               this.ProductName=ProductName;
               this.Productprice=Productprice;
        }
 }
 let ob1=new productId(1,abc,10);
 let ob2=new productId(22,def,100);
```

Q2

```
 public interface TaxCalculator {
       public abstract void hra();
 }
 public class Humanity implements TaxCalculator {
       private int basic_salary;

       public Order(int basic_salary) {
              this.basic_salary = basic_salary;
       }

       @Override
       public void hra() {
         HRA=(10/100)*basic_salary;

       }
 }
 public class Logistic implements TaxCalculator {
       private int basic_salary;

       public Order(int basic_salary) {
              this.basic_salary = basic_salary;
       }

       @Override
       public void hra() {
         HRA=(10/100)*basic_salary;
```

```
	}
}
public class Department {
	public static void main(String[] args) {
		basic_salary basic_salary = new basic_salary();

		Humanity humanity = new Humanity(basic_salary);
		Logistic logistic = new Logistic(basic_salary);
		Humanity.hra();

		humanity = new humanity(basic_salary);
		logistic = new Logistic(basic_salary);
		Logistic.hra();
	}
}
```

Q1

Q5