```
import javafx.scene.text.FontWeight

//question 3---------------start------------------------------

fun displayFirstLast(num:Int =1234){
    var str:String = num.toString();
    println("the first digit:${str.get(0)}")
    println("the last digit:${str.get(str.length-1)}")
}
fun sumSquredOdd(arr:IntArray){
    var total:Int=0
    for(index in 0..arr.size-1){
        if(arr.get(index)%2!=0){
            var square = arr.get(index)*arr.get(index)
            total+=square
            if(index==0)
                print(square)
            else
                print(" + "+square)
        }
    }
    println(" = "+total)
}

/*
Weight = Input * Relative gravity Choice Planet Relative gravity
1 Venus 0.78
2 Mars 0.39
3 Jupiter 2.65
4 Saturn 1.17
5 Uranus 1.05
6 Neptune 1.23
*/

fun calRelativeGravity(planetName:String ="Venus",weight:Double =100.0){
    when(planetName){
        "Venus"->println("${planetName} weight:"+0.78 * weight)
        "Mars" ->println("${planetName} weight:"+0.39 * weight)
        "Jupiter" ->println("${planetName} weight:"+2.65 * weight)
        "Saturn" ->println("${planetName} weight:"+1.17 * weight)
        "Uranus" ->println("${planetName} weight:"+1.05 * weight)
        "Neptune" ->println("${planetName} weight:"+1.23 * weight)
    }
}
//question 3---------------end------------------------------


//question 4---------------start------------------------------

open class Book{
    constructor(title:String,author:String,price:Double){
        this.title=title
        this.author=author
        this.price=price
    }
```

```
    var title:String = "not metioned"

    var author:String  = "not metioned"

     var price:Double  = 0.0

    open fun reading(){
        println("Reading Paper book")
    }
}
class EBook : Book {
    var fileType:String ="not mentioned"
    constructor(title:String,author:String,price:Double):
        super(title,author,price)
    constructor(title:String,author:String,price:Double,fileType:String):
            super(title,author,price){
        this.fileType=fileType
    }
    override fun reading(){
        println("Reading Paper electronic book")
    }
}

//question 4---------------end------------------------------


fun main(args:Array<String>){
    println("question 3 ---------------------------------------")
    displayFirstLast(5008)
    sumSquredOdd(intArrayOf(1,2,3,4,5,6,7))
    calRelativeGravity("Venus",100.0)

    println("question 4 ---------------------------------------")

    var book:Book = Book("kotlin","renuka",10.5)
    var ebook:EBook = EBook("kotlin","renuka",10.5,"electronic")

    println("book title:${book.title} author:${book.author} price:${book.price}")
    println("ebook title:${ebook.title} author:${ebook.author} price:${ebook.price}
fileType:${ebook.fileType}")
       book.reading()
       ebook.reading()


    ebook.title="kotlin(ebook)"

    println("book title:${book.title} author:${book.author} price:${book.price}")
    println("ebook title:${ebook.title} author:${ebook.author} price:${ebook.price}
fileType:${ebook.fileType}")

}
```

OUTPUT:

```
question 3 ----------------------------------------

the first digit:5

the last digit:8

1 + 9 + 25 + 49 = 84

Venus weight:78.0

question 4 ----------------------------------------

book title:kotlin author:renuka price:10.5

ebook title:kotlin author:renuka price:10.5 fileType:electronic

Reading Paper book

Reading Paper electronic book

book title:kotlin author:renuka price:10.5

ebook title:kotlin(ebook) author:renuka price:10.5 fileType:electronic


Process finished with exit code 0
```