

Class Notes 09/19

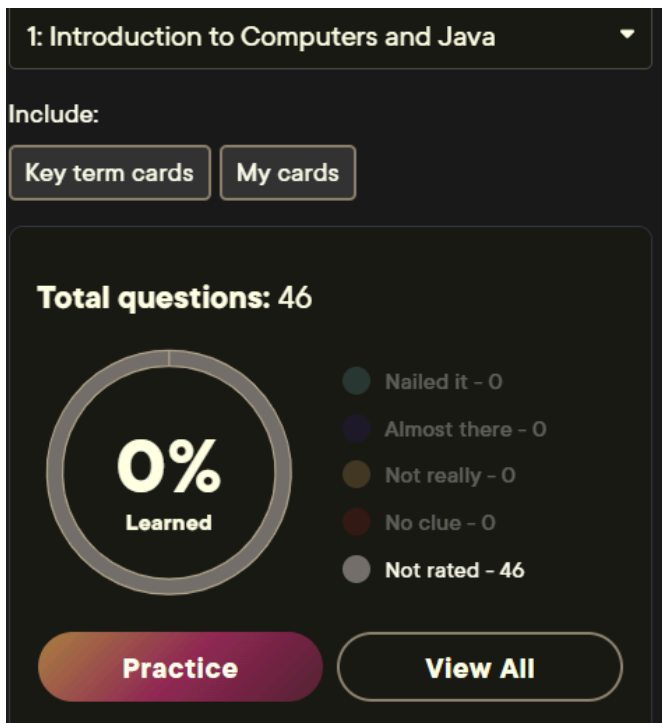
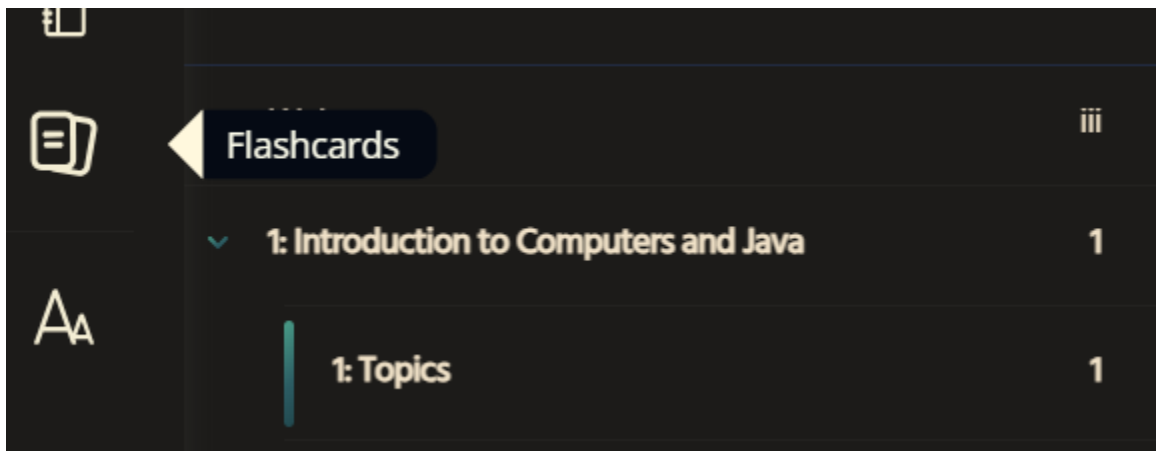
Went over homework

- problems 1 and 3 should be handwritten and can be checked on compiler

Covered some information regarding book

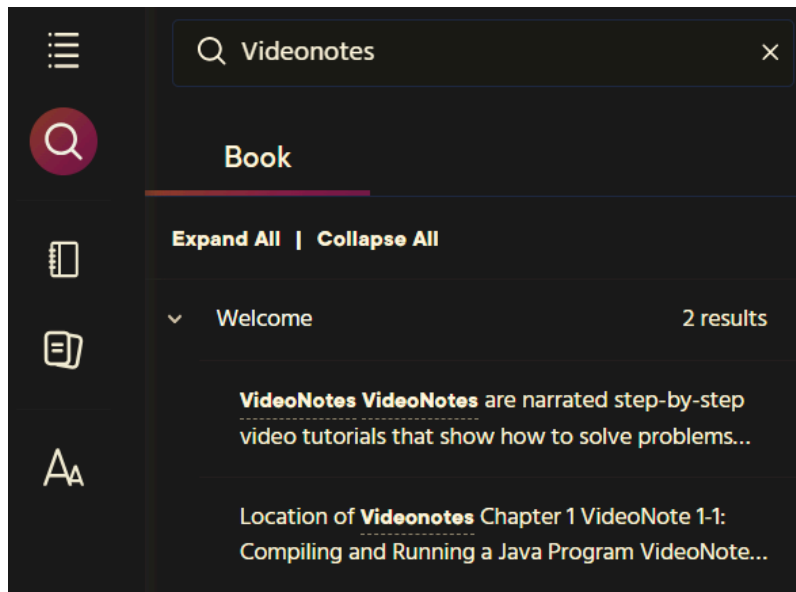
- how to get to flashcards

Flashcards for Ch 1

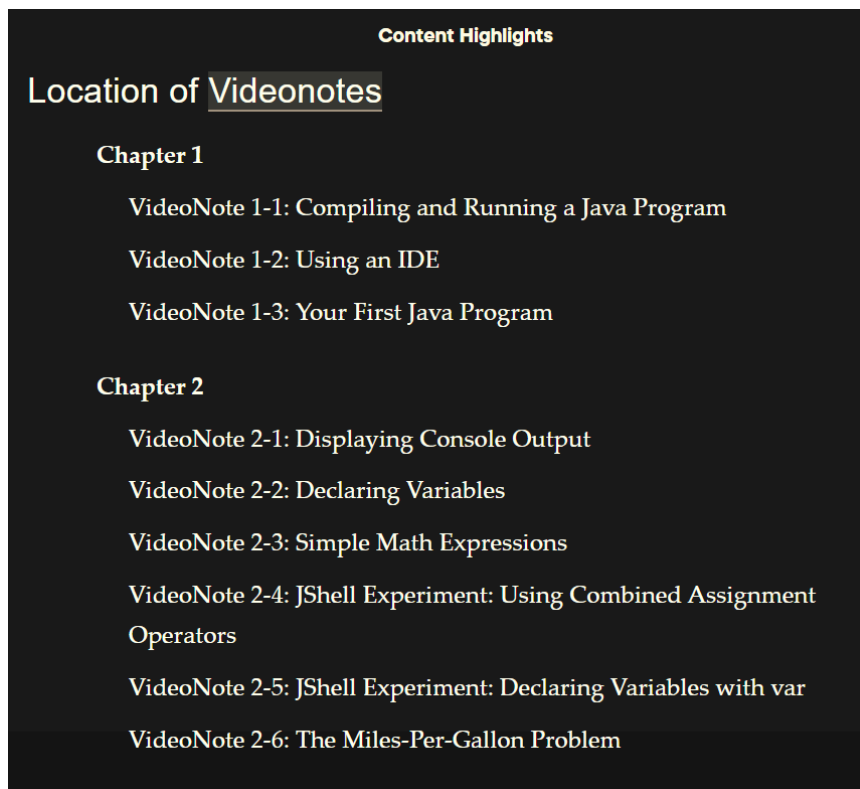


How to get to Video Notes

- Go to search
- Enter “Video Notes”
- Click on Location of VideoNotes



This goes down by each chapter



We continued Sect3_4YourNames

What subwords do you see in the String “unforgettable”?

For, get, forget, table, able, ect.

```
172 public static void StringEx()  
173 {  
174     //                                0123456789101112)  
175     String abc = new String("unforgettable"); // u is at index  
176     // Words are for, get, forget, table, able, others  
177     String word = " ";  
178  
179     // Explain why 2 to 5?  
180     // the first number (_,_) is the starting index  
181     // the second number goes to that point in the  
182     // index and returns that value  
183     word = abc.substring(2,5);  
184     System.out.print("\nword: " + word);  
185  
186     word = abc.substring(5,8);  
187     System.out.print("\nword: " + word);  
188  
189     word = abc.substring(2,8);  
190     System.out.print("\nword: " + word);  
191  
192     word = abc.substring(8,12);  
193     System.out.print("\nword: " + word);  
194  
195     // new command  
196     // Explain: if you have a single number in  
197     // in the substring, it means start from that index  
198     // and get everything to the end  
199     word = abc.substring(8);  
200     System.out.print("\nword: " + word);  
201 }
```

word: for
word: get
word: forget
word: able
word: able

Can only enter

This was our example

```
203 // We decided to work on the word candidate
204 // My partners are Dylan and Ivan
205 public static void subStringEx2WithDylanIvan()
206 {
207     // Word we chose was candidate and we did our own way
208     // of breaking the work up
209
210     // I decided to break the word up into can, did, date
211     // ,candid, didate (single number)
212
213     //                                012345678
214     String abc = new String("candidate");
215     String word = " ";
216     System.out.print("\n" + abc);
217
218     word = abc.substring(0,3);
219     System.out.print("\nword: " + word);
220
```

Class compiled - no syntax errors

saved

```
221 word = abc.substring(3,6);
222 System.out.print("\nword: " + word);
223
224 word = abc.substring(5,9);
225 System.out.print("\nword: " + word);
226
227 word = abc.substring(0,6);
228 System.out.print("\nword: " + word);
229
230 word = abc.substring(6);
231 System.out.print("\nword: " + word);
232
233
234 }
235 }
```

Results

```
candidate
word: can
word: did
word: date
word: candid
word: didate
```

<

Can only enter

Took a break 4:00

We used substring to use the .equals method between strings

```
234 public static void string2Ex()  
235 {  
236     String word = new String("candidate");  
237     // Words to, mob, auto, bile  
238     int pos;  
239     pos = word.indexOf( "can");  
240     System.out.println("\npos of can: " + pos);  
241  
242     pos = word.indexOf ( "did");  
243     System.out.println("pos of did: " + pos);  
244  
245     pos = word.indexOf ( "date");  
246     System.out.println("pos of date: " + pos);  
247  
248     pos = word.indexOf ( "candid");  
249     System.out.println("pos of candid: " + pos);  
250  
251     // Explain  
252     // This gives a negative one because it cannot find the  
253     // word. That means this is case sensitive so Ate != ate  
254     pos = word.indexOf ( "Ate" );  
255     System.out.println("pos of Ate: " + pos);  
256 }
```

This gives us an index of where the word we are looking for starts

```
pos of can: 0  
pos of did: 3  
pos of date: 5  
pos of candid: 0  
pos of Ate: -1
```

We can see here it gave back a negative 1 which means that it does not exist because the word we should be looking for is ate rather than Ate. The A is capitalized and a different value

Here we used the .equals method to compare similar words and the compareTo
In the third string Example

```
268 public static void string3Ex()  
269 {  
270     String w1 = "unforget";  
271     String w2 = "Unforget";  
272     String w3 = "unforgotten";  
273  
274     System.out.println("Is w1 same as w2: "  
275 + w1.equalsIgnoreCase( w2) );  
276     boolean same;  
277     same = w1.equals( w2 );  
278     System.out.println("Same if you don't ignore case? "  
279 + same);  
280  
281     same = w1.equals( w3); // should be false  
282     System.out.println("are w1 & w3 the same? " + same);  
283  
284  
285     // ans = w1.compareTo says this:  
286     // if negative num -> in alphebetical order  
287     // if 0 - > they are the same  
288     // if positive -> They are in reverse order  
289     int results;  
290     results = w1.compareTo( w2 );  
291     System.out.println("compare w1, w2: "+ results);  
292 }
```

Simple Loop

```
294 public static void simpleLoop()
295 {
296     Draw scr = new Draw();
297     scr.setXscale(0,400);
298     scr.setYscale(400,0);
299     scr.clear(Draw.YELLOW);
300
301     Random ran = new Random();
302     scr.setPenColor(Draw.BLUE);
303     for(int count =1; count<=123; count++)
304     {
305         System.out.println("Hello" + count);
306         System.out.println("Everyone" );
307         double x,y;
308         x = ran.nextInt(400);
309         y = ran.nextDouble() * 400; // random integer from 0 to 400
310         scr.filledCircle(x,y, 10);
311         scr.pause(500);
312     }
313 }
314 }
```

Output

