Name _____ Period_____

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1. Complete the following code segments.

(a) Write code that will assign the value of "Computer Science is Cool" to the String variable "g". Then have it print this String in all lower case.

```
String g = "Computer Science is Cool";
System.out.println(g.toLowerCase());
```

(a) Initialize a String variable b to "Four score and seven years ago". Print all the characters between (not inclusive) the first "s" in score and the "y" in years (EX: "core and seven ")

```
String b = "Four score and seven years ago";
System.out.println(b.substring(7, 22));
```

(c) Write code that will produce the following printout using only a single println(),

> Hello
> Hello Again

```
System.out.println("Hello\nHello Again");
```

(d) Write code that will print the following to the consol,

> "Look here!"

> Note, the quotes must display when printed.

```
System.out.println("\"Look here!\"");
```

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2.	You need to write a program that generates usernames and passwords for students at Timberline.

(a) The usernames will use the following convention: FirstInitial + LastName (all lower case). The final formatted username should be stored in a variable called username.

Below is sample output that illustrates how your code should run for various users.

firstName	lastName	username
Lady	Gaga	lgaga
Billie	Eilish	beilish

Write code to generate the properly formatted usernames below,

```
String username = firstName.substring(0, 1) + lastName.substring(0, 1)
username = username.toLowerCase();
```

(b) The passwords must use the following convention: first letter first name + first letter lastname + 6 digit birthdate (all letters lower case). The final formatted username should be stored in a variable called password.

Below is sample output that illustrates how your code should run for various users.

firstName	lastName	bDay	password
Lady	Gaga	03/28/1986	lg032886
Billie	Eilish	12/18/2001	be121801

Write code to generate the properly formatted passwords below,

```
String password = firstName.substring(0, 1).toLowerCase() +
lastName.substring(0, 1).toLowerCase() +
bDay.substring(0, 2) +
bDay.substring(3, 5) +
bDay.substring(bDay.length – 2);
```

3. Write a driver class called WordScramble that extracts the first half and second half of the word, then recombines the halves such that the last half is printed first followed by the first half.

   Below is sample output that illustrates what your code should output for various words,

Word	Output
popcorn	cornpop
bike	kebi
school	oolsch

```java
public class WordScramble{
      public static void main(String args[]){
            System.out.println(word.substring(word.length()/2) +
word.substring(0, word.length()/2);


      }
}
```