

Last Day of School: Write a pangram checker

Due Tuesday 6/1/21 by 12:30pm (by the end of class, not midnight)

A pangram is a phrase that contains every letter of the alphabet. These sentences are examples of pangrams:

The five boxing wizards jump quickly.

The quick brown fox jumps over the lazy dog.

Today we're writing a pangram checking program.

Requirements:

1. Create a repl called "pangram checker".
2. Import Scanner at the top: `import java.util.Scanner`
3. Do a `while(true)` loop.
4. Ask the user to enter a phrase. If they enter nothing, break out of the loop and print a friendly goodbye message.
5. If they enter a phrase, check if it is a pangram. If it is, say so, if it is not say which letters are not in it.
6. Repeat until the user enters nothing when asked for a phrase, then quit as noted in step 4.
7. Test your program. Try entering the boxing wizards phrase from the top of this page and you should be told it is a pangram. Enter "I sure miss regular school", and you should be told it is not a pangram and that it is missing these letters: `b d f j k n p q t v w x y z`. Try another phrase or two, find a funny pangram on the Internet, make sure it works.

Sample output for this program is below.

I'm sure there are a ton of ways to do this. Think about it, perhaps try it on your own, and if you are stuck or can't think of how to go about doing this, watch my video.

The assignment is due today, at 12:30, when class is over. Thanks for a great year. Have a good summer!

Sample output:

```
Welcome to the pangram checker.
```

```
Please enter a phrase and I'll tell you if it's a pangram or not:
```

```
The five boxing wizards jump quickly.
```

```
Congratulations, you entered a pangram!
```

```
Please enter a phrase and I'll tell you if it's a pangram or not:
```

```
Winter quickly came upon us as we feverishly axed lumber, jumping to keep from freezing.
```

```
Congratulations, you entered a pangram!
```

```
Please enter a phrase and I'll tell you if it's a pangram or not:
```

```
Summer is going to be fun.
```

```
Sorry, that is not a pangram.
```

```
It is missing these letters: A C D H J K L P Q V W X Y Z
```

```
Please enter a phrase and I'll tell you if it's a pangram or not:
```

```
Have a great summer, thanks for a wonderful year!
```