

Java Programming for Beginners

Lab Exercise 5

Answer Key

1) Methods become very useful when we want to perform an action multiple times. An example of a repeat task is when we are attempting to reach a value by guessing. Write a Java method that will generate a random integer and check it against an input value.

To generate a random integer, we can use:

```
int x = new java.util. Random().nextInt(100);
```

SOLVED IN ATTACHED JAVA CLASS FILE

2) Now, we can utilize our new method to “crack” an integer value. Place our method in a loop that checks our randomly generated value against the value 47 until it guesses correctly. How long does this take?

SOLVED IN ATTACHED JAVA CLASS FILE

3) In Java, what is the difference between a “function” and a “method”?

In Java, we only ever use “methods.” However, because the term “function” does not have a distinct meaning, it is sometimes used simply by reflex. In other programming languages functions are methods not tied to an object—which is not an option in Java.

