

Lab Goal : This lab will focus on loops, variables, if statements, and strings.

Lab Description : Write a program that will go through a string and count up the number of letter pairs present. A letter pair is any two adjacent letters with the same value.

"doggy" contains 1 letter pair.

"mississippi" contains 3 letter pairs.

The last letter in a pair can be used to create another new pair.

"aaaaaa" contains 5 letter pairs.

Files Needed ::

CountPairs.java

CountPairsRunner.java

Basic for loop syntax :

```
for(int x=5; x<200; x=x+20)
{
    //do something
}
```

Sample Data

```
ddogccatppig
dogcatpig
xxyyzz
a
abc
aabb
dogcatpigaabbcc
aabbccdogcatpig
dogabbcccatpig
aaaa
AAAAAAAAA
```

Sample Output

```
3
0
3
0
0
2
3
3
3
3
3
8
```