Assignment Scala 1

Task 1

Screenshot of the virtual machine output.

```
Applications Places System Solution  

Comparison  

Compa
```

Task 2

Screenshot of output and commands

- Count of strings with length 4

```
val data = List("alpha", "gamma", "omega", "zeta", "beta")
// count of strings with length 4
val result = data.filter(x => x.length == 4).size
println("Strings with length 4: "+result)
```

Output

```
"C:\Program Files\Java\jdk1.8.0_131\bin\java.exe" ...
Strings with length 4: 2
```

- List of strings to list of integers

Commands

```
// Convert list of strings to list of integers
println("List of strings to length of strings")
println(for(elem<-data) yield elem.length)</pre>
```

Output

```
List of strings to length of strings
List(5, 5, 5, 4, 4)
```

Count of strings with letter m

Commands

```
// Count of all strings with letter m
println("Count of strings with letter m")
val result2 = data.filter(x => x contains 'm').size
println(result2)
```

Output

```
Count of strings with letter m
2
```

- Count of strings with letter a

Commands

```
// Count of all strings with letter a
println("Count of strings with letter a")
val result3 = data.filter(x => x.startsWith("a")).size
println(result3)
```

Output

```
Count of strings with letter a

1
```

Task 3

GCD of 2 numbers:

Commands (Create a function)

```
def gcd(x: Int,y: Int): Int = {
   if(y == 0) x else gcd(y, x%y)
}
```

Output (Display the output)

```
GCD of 2 numbers
5
```