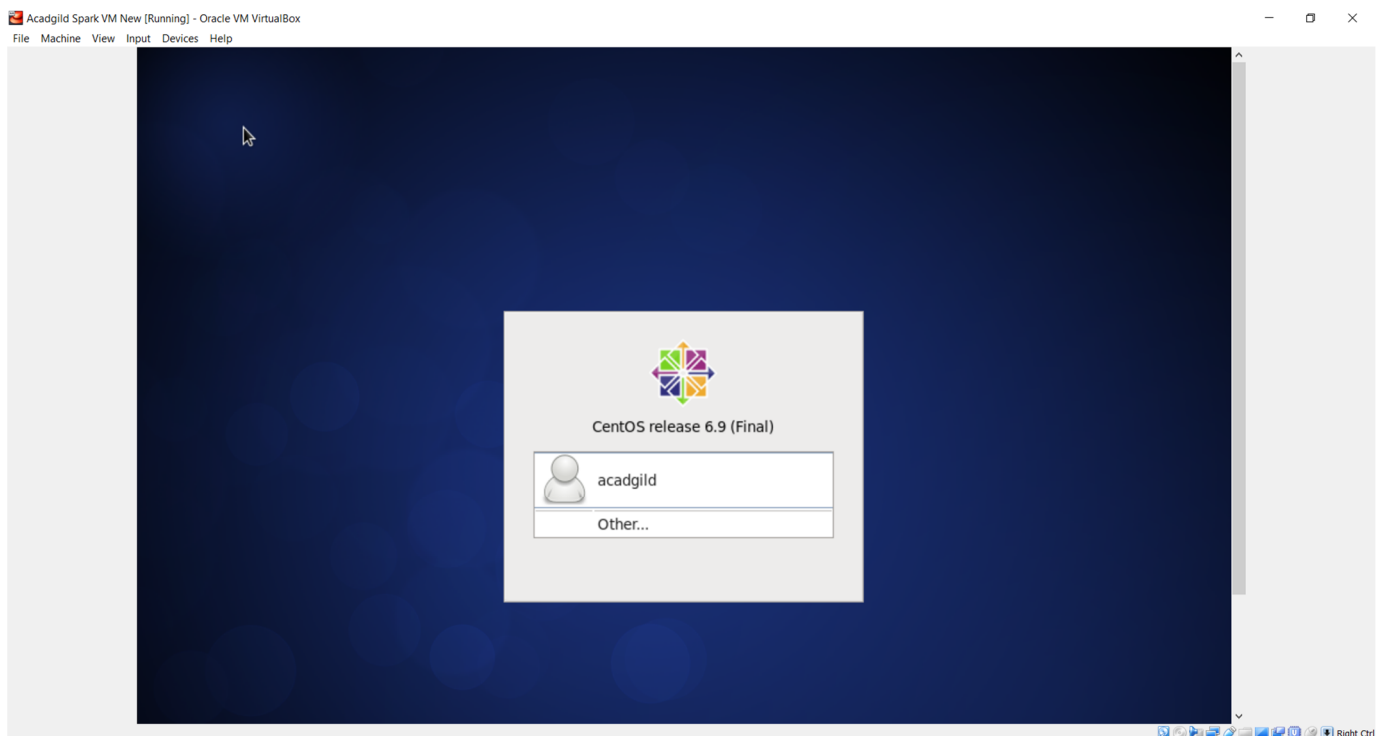
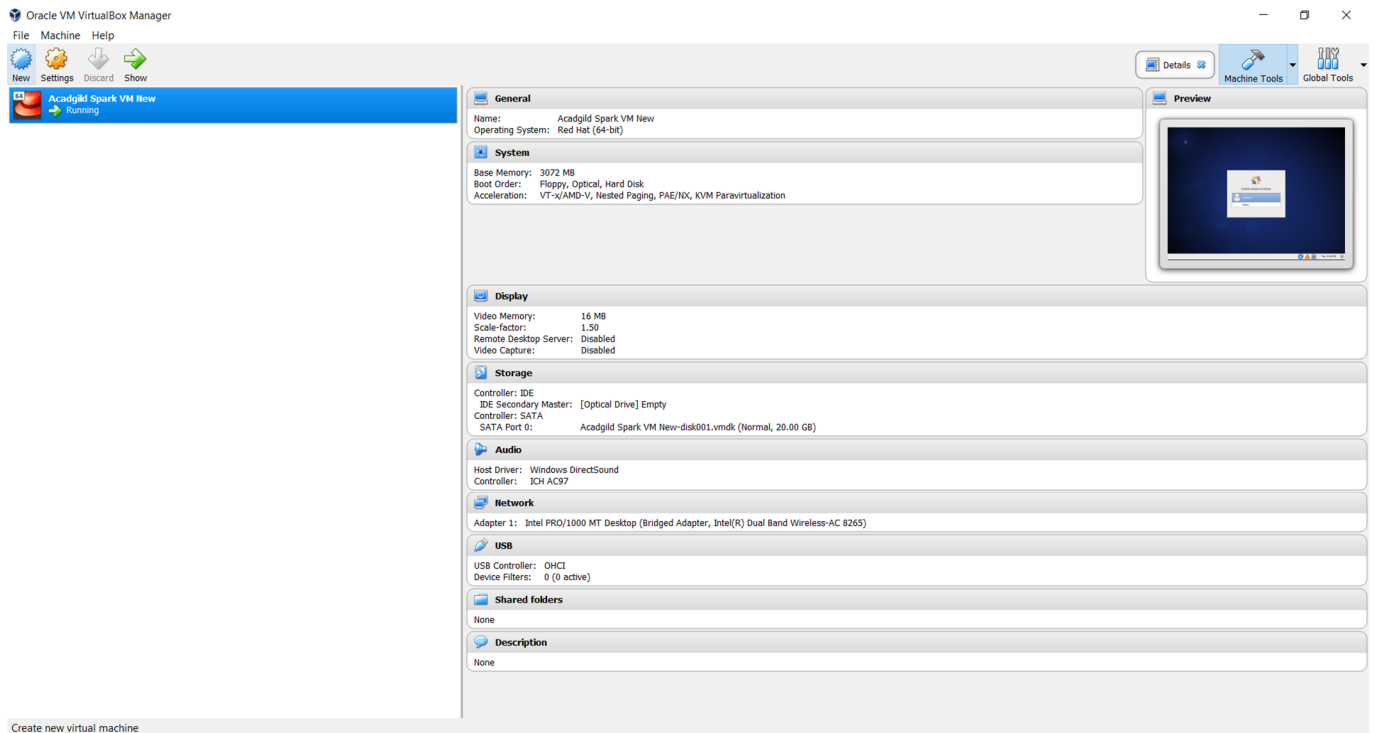


# Task 1:

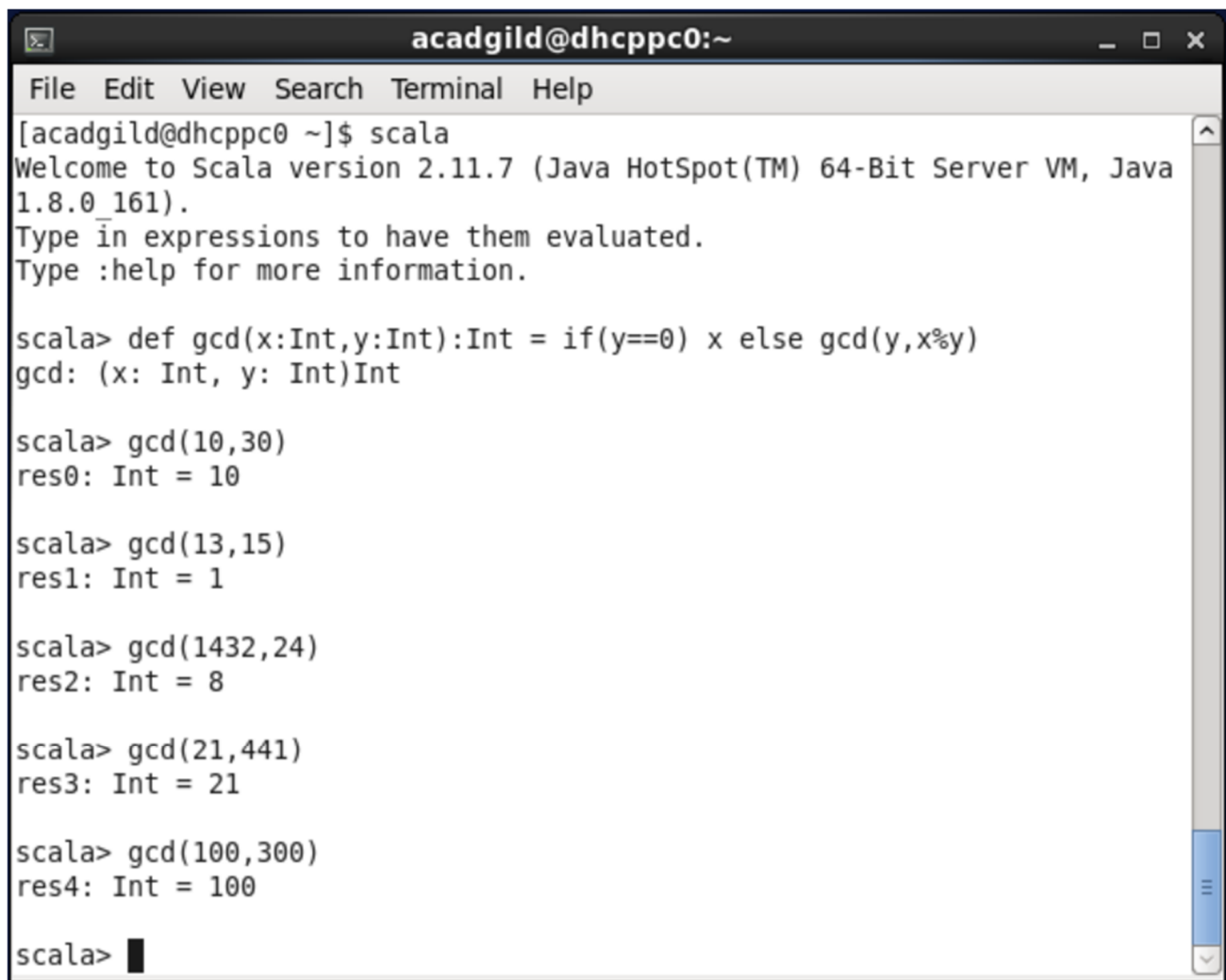


## Task 2:



```
acadgild@dhcppc0:~  
File Edit View Search Terminal Help  
scala> val ls = List[String]("alpha","gamma","omega","zeta","beta")  
ls: List[String] = List(alpha, gamma, omega, zeta, beta)  
  
scala> println(ls.count(word=>(word.length==4)))  
2  
  
scala> println(ls.map(word=>(word,word.length)))  
List((alpha,5), (gamma,5), (omega,5), (zeta,4), (beta,4))  
  
scala> println(ls.count(word=>word.matches(".*[m].*")))  
2  
  
scala> println(ls.count(word=>word.startsWith("a")))  
1
```

### Task 3:



```
acadgild@dhcppc0:~  
File Edit View Search Terminal Help  
[acadgild@dhcppc0 ~]$ scala  
Welcome to Scala version 2.11.7 (Java HotSpot(TM) 64-Bit Server VM, Java  
1.8.0_161).  
Type in expressions to have them evaluated.  
Type :help for more information.  
  
scala> def gcd(x:Int,y:Int):Int = if(y==0) x else gcd(y,x%y)  
gcd: (x: Int, y: Int)Int  
  
scala> gcd(10,30)  
res0: Int = 10  
  
scala> gcd(13,15)  
res1: Int = 1  
  
scala> gcd(1432,24)  
res2: Int = 8  
  
scala> gcd(21,441)  
res3: Int = 21  
  
scala> gcd(100,300)  
res4: Int = 100  
  
scala> █
```