CS982 / CS989: Big Data Technologies / Fundamentals

Laboratory 1 Solutions

1. Write a Python program to get the Python version you are using and print it out

Solution:

```
import sys
print("Python version")
print (sys.version)
```

2. Write a Python program to print the following as shown:

```
Baa, baa, black sheep
        Have you any wool?
    Yes sir, yes sir
            Three bags full.
One for my master
    And one for the dame
One for the little boy
Who lives down the lane.
```

Solution:

```
print(“Baa, baa, black sheep \n\t\t Have you any wool? \n\t Yes sir, yes sir \n\t\t\t Three bags full. \n One for my master \n\t And one for the dame \n One for the little boy \n Who lives down the lane.”)
```

3. Write a Python program to count the number of even and odd numbers from a series of numbers

Solution:

```
numbers = (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15) # Declaring the tuple
odd = 0
even = 0
for num in numbers:
    if not num % 2:
        even+=1
    else:
        odd+=1
print("Number of even numbers is", even)
print("Number of odd numbers is", odd)
```

4. Write a Python program that prints all the numbers from 0 to 50 except 37 and 16.

Solution:

```
for x in range(50):
  if (x == 37 or x==16):
    continue
```

```
print(x)
```

5. Write a Python program to get the Fibonacci series between 0 and 100. The Fibonacci Sequence is the series of numbers: 0, 1, 1, 2, 3, 5, 8, 13, 21, 34, ... The next number is found by adding up the two numbers before it.

Solution:

```
x,y=0,1
while y<100:
    print(y)
    x,y = y,x+y
```