

Python Beginners Week 1 HW

Question 1

Write code that prints all the even numbers starting from 2 and ending at 1600.

Question 2

Write code that determines whether a given number is prime or not. A prime number is a number that can only be divided by 1 and itself. Below is some code to start you off. If the number is prime print "The number is prime". If the number is not prime, then print "The number is not prime".

```
number = <Enter any number you want here>
<Write a bunch of code here>
```

Question 3

What is the problem with the following code? How can you fix it?

```
age = 30
if age > 18:
    print("You are an adult")
if age > 12:
    print("You are a teen")
else:
    print("You are a kid")
```

Question 4

Write code prints "cool" if the number x is between (or equal to) the numbers y and z. The code will also print "cool" if x is an even number. The code will print "bye" if the number x is odd. As a special case, if the number x is equal to zero then you must print "boom". You can assume that y is always less than z. Below is some code to start you off.

```
x = <Enter any number you want here>
y = <Enter any number you want here>
z = <Enter any number you want here>
<Write a bunch of code here>
```