

# Homework 1

Alan Kantserov

September 24, 2015

In this report I am going to show you a code that calculates if the number given by user (input) is prime or not. If you enter prime number, console will give an output: "Your number is prime". However, if your number is not prime, console will log: "Your number is not prime".



Figure 1: Python is the best language EVER!!!!

## PYTHON CODE

```
b = input("Give me a number ")
if b > 1:
    for i in range(2,b):
        if (b % i) == 0:
            print "It isn't a prime number"
            break
        else:
            print "It is a prime number"
```

At first, computer takes the number from us. Then it checks whether the number is greater than one to continue evaluating. Then, if the number is greater than 1, it checks the numbers in range from 2 to number we gave. Then, it divides our number by any number in range from 2 to our number and if the remainder is 0, it logs that number isn't prime. Otherwise, it prints that number is prime.

There are 2 possible outputs:

```
It isn't a prime number
It is a prime number
```

This indicates the output of your program.