Homework 3 Alan Kantserov October 12, 2015

In this report I am going to show a code that will convert the number we input to another bases that we need.

PYTHON CODE

ans = "" #string that would be the answer at the end c = 213 #this is static: c doesn't change a = 213 #this is dynamic: a will change b = 2 #this is base e = 0 #this is the exponent: e will change while b**e<c: #run the program until base in power of the exponent won't be bigger than our initial number that should converted x=a%(b**(e+1)) #take number from var a which changes every time because of division and divide by base in power of sum exponent y=x/(b**(e)) #take the result from x and divide by the base in power of the exponent ans=str(y)+ans #add the answer to ans string a=a-x #subtract t e=e+1 #increase exponent by 1 print ans #this will print converted answer



Figure 1: Anaconda?

So c is the number we want to convert to another base.

Output:

>>> 3111

So if we convert 213 from base 10 to base 4 we will get the output3111