Python basic codes:

1. Addition of 2 numbers?

a=int(input())

b=int(input())

c=a+b

print(c) Prime Range code:

a=int(input(“enter range:”))

for i in range(2,a):

b="prime"

for j in range(2,i):

if i%j==0:

b="Not prime"

break;

if(b=="prime"):

print(i,"is",b)

2.Prime or not?

a=int(input()

b=”Prime”

Output:

enter range:10

2 is prime

3 is prime

5 is prime

7 is prime

for i in range(2,a):

if a%i==0:

b=”Not prime”

break;

print(b)

a=int(input("enter a number ="))

for i in range(1,a+1):

temp=i

rev=0

while i>0:

rem=i%10

rev=rev\*10+rem

i=i//10

if (temp==rev):

print(temp," is palindrome")

else:

print(temp,"is not palindrome")

Output:

enter a number =10

1 is palindrome

2 is palindrome

3 is palindrome

4 is palindrome

5 is palindrome

6 is palindrome

7 is palindrome

8 is palindrome

9 is palindrome

10 is not palindrome

3.Palindrome or not ?

a=int(input("enter a number ="))

temp=a

rev=0

while a>0:

rem=a%10

rev=rev\*10+rem

a=a//10 # / return float value

if (temp==rev): # // returns integer value

print("palindrome")

else:

print("not palindrome")

Output:

enter target number =1000

1 Armstrong

2 Armstrong

3 Armstrong

4 Armstrong

5 Armstrong

6 Armstrong

7 Armstrong

8 Armstrong

9 Armstrong

153 Armstrong

370 Armstrong

371 Armstrong

407 Armstrong

import math

a=int(input("enter target number ="))

for i in range(1,a+1):

temp=i

sum=0

count=0

while i>0:

count+=1

i=i//10

i=temp

while i>0:

rem=i%10

power=int(math.pow(rem,count))

sum=sum+power

i=i//10

if(sum==temp):

print(temp,"Armstrong ")

Check a number is Armstrong or not? Armstrong range:

import math

a=int(input("enter a number="))

temp=a

sum=0

count=0

while a>0:

count+=1

a=a//10

a=temp

while a>0:

rem=a%10

power=int(math.pow(rem,count))

sum=sum+power

a=a//10

if(sum==temp):

print("Armstrong number")

else:

print("not armstrong")

Output:

enter a number=153

Armstrong number

a=int(input("enter a number="))

for i in range(1,a+1):

b=str(i)[::-1]

if (i==int(b)):

print(i,"palindrome")

output:

enter a number=20

1 palindrome

2 palindrome

3 palindrome

4 palindrome

5 palindrome

6 palindrome

7 palindrome

8 palindrome

9 palindrome

11 palindrome

a=int(input())

b=a[::-1]

if (a==b):

print("palindrome")

else:

print("Not palindrome")

Output:

enter a number=121

palindrome