**实验报告**

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**实验名称**： 计算机程序设计上机实验

**实验要求：熟悉开发环境**

**实验题目：程序练习题**

**算法实现：（核心代码）**

1. 大田字格

def tdedge (n):

s = ("+----")

if n > 0:

print(s\*n +'-')

def lredge(n):

s = ("| ")

print(s\*n +'|')

def matts(n):

for i in range(5\*n+1):

if i%5 == 0:

tdedge(n)

else:

lredge(n)

matts(4)

1. 判断奇偶性

def isOdd(n):

if n%2 == 1:

return True

else:

return False

while True:

n = eval(input('请输入一个整数：'))

if n == -1:

print('program is over!')

break

if isOdd(n):

print("{} is odd".format(n))

else:

print("{} is even".format(n))

1. 判断字符串是否为整数，浮点数或复数

def isNum(n):

try:

n = eval(s)

except:

return False

return True

while True:

s = input('enter a string:')

if isNum(s):

print("{} is a number".format(s))

else:

print("{} is not a number".format(s))

if s == 'over':

print("program is OVER!")

break

1. 整数是否为质数

def isPrim(n):

for i in range(2,n):

if n%i == 0:

return False

return True

if isPrim(1383324375):

print("is prime")

else:

print("is not prime")

1. 参数乘积

def multi(\*a):

if len(a) == 0:

return 0

t = 1

for i in a:

t = t\*i

return t

print(multi())

print(multi(2,8,9))

print(multi(1,5))

**运算结果（截图）**









