1.

v = int(input())

a = int(input())

length = (v \* v ) / 2 \* a

print('最短跑道長度為',length,'公尺')

2.

r = int(input())

h = int(input())

Pi = 3.14

Area = Pi \* r\*\*2

Volume = Area \* h

print('圓柱體的底面積為',Area,'平方公尺')

print('圓柱體的體積為',Volume,'立方公尺')

3.

a = int(input())

if 100 <= a <= 999:

a = a // 10 \* 10

print(a)

else:

print('不是三位數')

4.

from math import sqrt

x1 = int(input())

y1 = int(input())

x2 = int(input())

y2 = int(input())

l = ((x2 - x1)\*\*2 + (y2 - y1)\*\*2)\*\*0.5

print(l)

5.

t = int(input('1.攝氏-> 華氏. 2.華氏->攝氏.'))

if t == 1:

print('請輸入溫度:',end = '\n')

c = int(input())

f = c \* (9 / 5) + 32

print('轉換的溫度為華氏',f,'度')

elif t == 2:

print('請輸入溫度:',end = '\n')

f = int(input())

c = (f - 32) \* (5 / 9)

print('轉換的溫度為攝氏',c,'度')

else:

print('錯誤')

6.

v1 = int(input())

v2 = int(input())

t = int(input())

print((v2 - v1) / t)

7.

n = int(input())

if n < 0:

print('錯誤')

else:

a = n // 100

b = n // 50

c = n // 10

d = n - a \*100

e = n - b \*50

f = n - c \*10

print('可兌換100元',a,'張','還剩',d,'元','或50元',b,'張','還剩',e,'元','或10元',c,'張','還剩',f,'元')

8.

buy = int(input('請輸入購買金額:'))

if buy>=100000:

pay = buy \* 0.85

print('需付',pay,'元')

elif 100000>buy>=50000:

pay = buy \* 0.9

print('需付',pay,'元')

elif 50000>buy>=10000:

pay = buy \* 0.95

print('需付',pay,'元')

elif buy<10000:

pay = buy

print('需付',pay,'元')

else:

print('錯誤')

9.

a = int(input('判斷是否為7的倍數:'))

if a % 7 == 0:

print('True')

else:

print('False')

10.

a = int(input())

b = int(input())

c = int(input())

d = int(input())

e = int(input())

f = int(input())

if a\*d-b\*c == 0:

print('無解')

else:

x = (e\*d-b\*f)/(a\*d-b\*c)

y = (a\*f-e\*c)/(a\*d-b\*c)

print('x =',x)

print('y =',y)