

# Python - 上机 1

沈宇昊

210162701031

兰州理工大学

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# Contents

1. 实验二

2. 实验四

(1)



```
work.py
3 import math
4 print("第5题", 24*100/(23690-23352), '\n', sep=' ')
1
2 s=str(input())
3 print("第6题", ''.join(reversed(s)), '\n', sep=' ')
4
5 a,b,c=input().split(' ')
6 a,b,c=int(a),int(b),int(c)
7 l=(a+b+c)/2
8 print("第7题", math.sqrt(l*(l-a)*(l-b)*(l-c)), '\n', sep=' ')
9
10 r=int(input())
11 print(4*math.pi*r*r)
12 print("第8题", 4/3*math.pi*(r**3), '\n', sep=' ')
13
14 print("第9题", (1.01**364), (0.99**364), sep=' ')
```

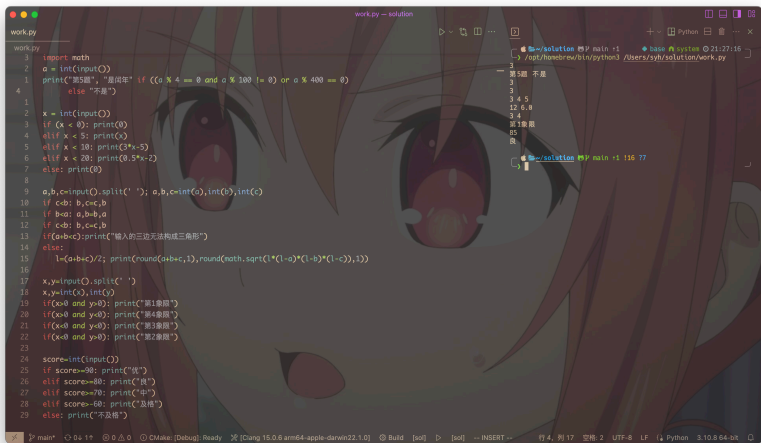
```
~/solution % python3 main +1
~/opt/homebrew/bin/python3 /Users/syh/solution/work.py
第5题 7.100591715976331
321
第6题 123
3 4 5
第7题 6.0
3
113.09733552923255
第8题 113.09733552923254
第9题 37.409340923650774 0.025775721668980935
~/solution % python3 main +1 116 77
115 base system 20:56:35
```

# Contents

1. 实验二

2. 实验四

(1)



```
work.py
3 import math
2 a = int(input())
1 print("第5题", "是闰年" if ((a % 4 == 0 and a % 100 != 0) or a % 400 == 0)
4     else "不是")
1
2 x = int(input())
3 if (x < 0): print(0)
4 elif x < 5: print(x)
5 elif x < 10: print(3*x-5)
6 elif x < 20: print(0.5*x-2)
7 else: print(0)
8
9 a,b,c=input().split(' '); a,b,c=int(a),int(b),int(c)
10 if c<b: b,c=c,b
11 if b<a: a,b=b,a
12 if c<b: b,c=c,b
13 if (a+b<c):print("输入的三边无法构成三角形")
14 else:
15     l=(a+b+c)/2; print(round(a+b+c,1),round(math.sqrt(l*(l-a)*(l-b)*(l-c)),1))
16
17 x,y=input().split(' ')
18 x,y=int(x),int(y)
19 if (x<0 and y<0): print("第1象限")
20 if (x<0 and y>0): print("第4象限")
21 if (x>0 and y<0): print("第3象限")
22 if (x>0 and y>0): print("第2象限")
23
24 score=int(input())
25 if score==90: print("优")
26 elif score==80: print("良")
27 elif score==70: print("中")
28 elif score==60: print("及格")
29 else: print("不及格")
```

Terminal output:

```
~/solution % python3 main.py
第5题 不是
3
3 4 5
12 6.0
3 4
第1象限
85
良
~/solution % python3 main.py 136 77
```