```
import math as m
name = input("請輸入姓名: \n")
print("Hello! " + name)
# practice eval
print(eval("113.132"))
print(eval("123 * 3"))
print(eval("123 + 3"))
print(eval("4 ** 3"))
# pratice coveting user input into number
radius = eval(input("請輸入半徑: "))
area = m.pi * radius ** 2
print(area)
a = eval(input("Please input num a: \n"))
b = eval(input("Please input num b: \n"))
print("a =", a)
print("b = ", b)
a, b, c = map(float, input("Please enter 3 numbers separated by spaces: ").split())
average = (a + b + c) / 3
print("Average:", average)
# cat the string
```

```
print("Hello " + "Anga")
print("Hello ", "Bob")
print("Hello ", "Bob", end = "~~~")
print("Hello world\n")
print("Hello world\t")
# round
print(round(m.pi, 5))
print(round(m.e, 6))
z = 6 ** 4
print(format(x, "5d"))
print(format(z, "10d"))
print(format(m.pi, "4.4f"))
print(format(m.pi, "4.4e"))
print(format(134134.13242, "4.4e"))
print(format(12312, "4.4e"))
x = 10000
print("x = %d" % x)
```

```
# format output
x = 10000
print("x = %d" % x)
print("x = %5d" % x )
print("x = %e" % x)
print("x = %.2f" % m.pi)
print("x = %5.4f" % m.e)
print("x = %o (oct)" %x)
print("x = %x (hex)" %x )
print("x = %s" % str(231.134))
infile = open("text.txt", "r")
print(infile.read())
infile.close()
infile = open("text.txt", "r")
print(infile.readlines())
infile.close()
# write file
outfile = open("text.txt", "w")
outfile.write("Hello world\n")
outfile.close()
```

```
/usr/tocal/bin/python3.12 /Users/pengyenjia/Desktop/運算思鏡與程式設計/makeUp_Submission_py/4_1/課堂練習/11227130_資訊二甲_11227130_彭妍舊 4_1.py 
謝翰太廷名:
Anga
Hetlo! Anga
113.132
369
126
64
謝翰太半徑: 3
82.274373882308138
Please input num a:
3
Please input num b:
4
a = 3
b = 4
Please enter 3 numbers separated by spaces: 2 3 4
Average: 3.0
Hello Anga
Hetlo Bob
Hello Bob------Hello world
Hello world
Hello world
**Hello world**
**Hello world**
3.14159
2.718282
4
1296
```

```
Average: 3.0
Hello Anga
Hello Bob
Hello Bob~~~~Hello world
Hello world
"Hello world"
3.14159
2.718282
   4
      1296
3.1416
3.1416e+00
1.3413e+05
1.2312e+04
x = 10000
x = 10000
x = 1.000000e + 04
x = 3.14
x = 2.7183
x = 23420 \text{ (oct)}
x = 2710 \text{ (hex)}
x = 231.134
12
32
34
45
66
['12\n', '32\n', '34\n', '45\n', '66\n']
Process finished with exit code 0
```