File Edit View

EXECUTE THE PROGRAMS DISCUSSED ON DAY 2

prog1.py - C:\Users\elcot\Desktop\day 2\prog1.py (3.10.7)

File Edit Format Run Options Window Help

```
#while
i=0
while i<=10:
      print(i)
      i+=1
```

IDLE Shell 3.10.7

File Edit Shell Debug Options Window Help

```
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep  5 2022, 14:08:36) [MSC v.1933 64 bit
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
================ RESTART: C:\Users\elcot\Desktop\day 2\prog1.py ==============
==
0
1
2
3
4
5
6
7
8
9
10
>>>
```

Ln: 1 Col: 0

Type here to search

ENG IN 18:19 05-10-2022

prog2.py - C:\Users\elcot\Desktop\day 2\prog2.py (3.10.7)

File Edit Format Run Options Window Help

```
#if else
n= int(input("enter a num:"))
if n%2==0:
      print("even")
else:
      print("odd")
```

IDLE Shell 3.10.7

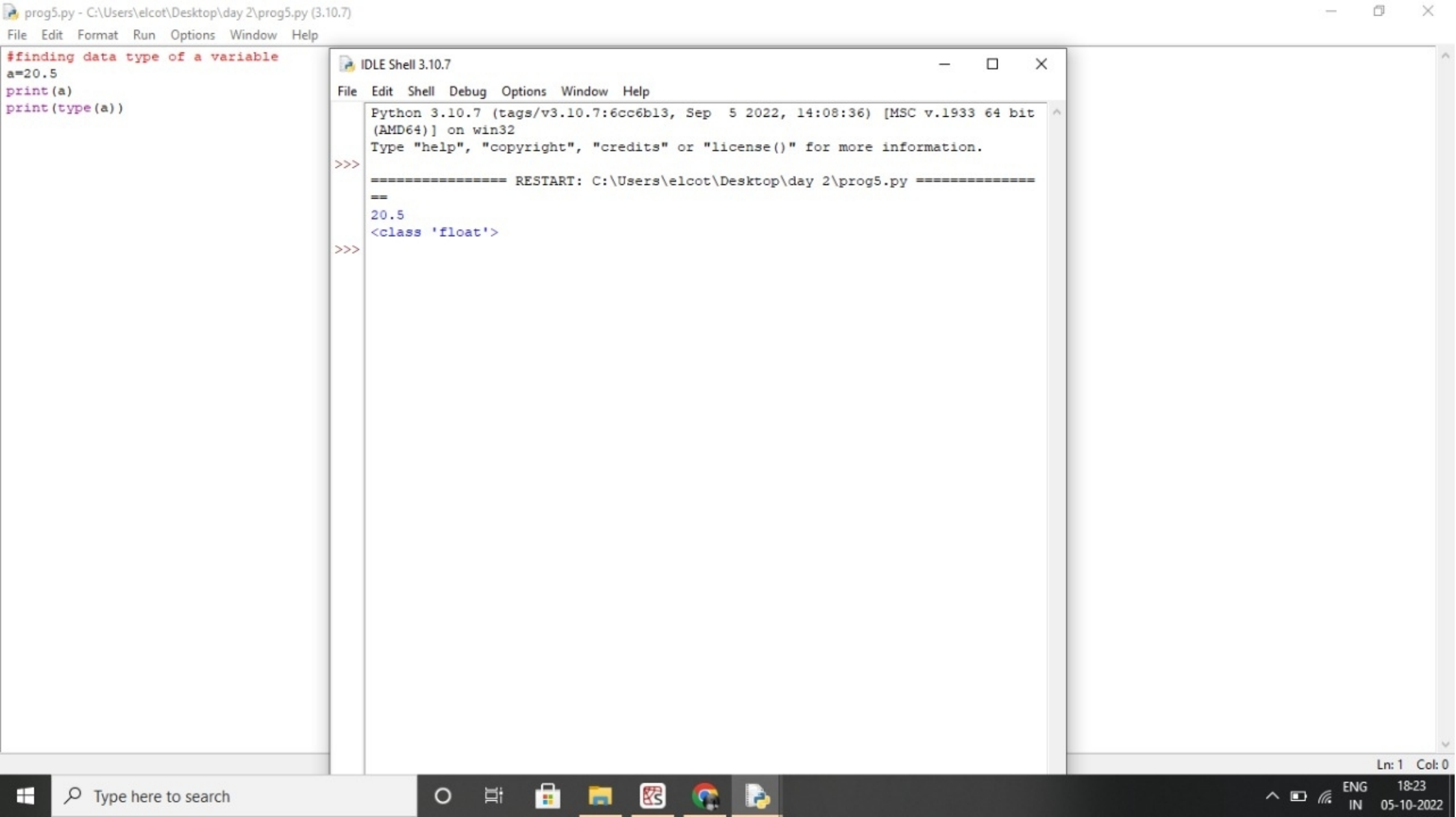
File Edit Shell Debug Options Window Help

```
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep  5 2022, 14:08:36) [MSC v.193
3 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more informatio
n.
>>>
================ RESTART: C:\Users\elcot\Desktop\day 2\prog2.py ======
==========
enter a num:55
odd
>>>
```

Ln: 1 Col: 0

Type here to search

ENG IN 18:20 05-10-2022


prog5.py - C:\Users\elcot\Desktop\day 2\prog5.py (3.10.7)
File Edit Format Run Options Window Help
#finding data type of a variable
a=20.5
print(a)
print(type(a))
IDLE Shell 3.10.7
File Edit Shell Debug Options Window Help
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: C:\Users\elcot\Desktop\day 2\prog5.py ==========
20.5
<class 'float'>
>>>
Ln: 1 Col: 0
Type here to search
ENG
IN
18:23
05-10-2022

prog6.py - C:\Users\elcot\Desktop\day 2\prog6.py (3.10.7)

File Edit Format Run Options Window Help

```
a=2+7j
print(a)
print(type(a))

b=True
print(b)
print(type(b))
```

IDLE Shell 3.10.7

File Edit Shell Debug Options Window Help

```
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep  5 2022, 14:08:36) [MSC v.1933 64 bit
 (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
================ RESTART: C:\Users\elcot\Desktop\day 2\prog6.py ==============
==
(2+7j)
<class 'complex'>
True
<class 'bool'>
>>>
```

Ln: 1 Col: 0

Type here to search

ENG IN 18:23 05-10-2022

prog7.py - C:\Users\elcot\Desktop\day 2\prog7.py (3.10.7)

File Edit Format Run Options Window Help

```
#multiple variable
a,b,c =10,3,20
print(a)
print(b)
print(c)

del(b)
print(b)
```

IDLE Shell 3.10.7

File Edit Shell Debug Options Window Help

```
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep  5 2022, 14:08:36) [MSC v.1933 64 bit
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: C:\Users\elcot\Desktop\day 2\prog7.py ==========
==
10
3
20
Traceback (most recent call last):
  File "C:\Users\elcot\Desktop\day 2\prog7.py", line 8, in <module>
    print(b)
NameError: name 'b' is not defined
>>>
```

Ln: 1 Col: 0

Type here to search

ENG IN 18:24 05-10-2022

prog6.py - C:\Users\elcot\Desktop\day 2\prog6.py (3.10.7)

File Edit Format Run Options Window Help

```
a=2+7j
print(a)
print(type(a))

b=True
print(b)
print(type(b))
```

IDLE Shell 3.10.7

File Edit Shell Debug Options Window Help

```
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep  5 2022, 14:08:36) [MSC v.1933 64 bit
 (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
================ RESTART: C:\Users\elcot\Desktop\day 2\prog6.py ==============
==
(2+7j)
<class 'complex'>
True
<class 'bool'>
>>>
```

Ln: 1 Col: 0

Type here to search

ENG IN 18:23 05-10-2022

prog4.py - C:\Users\elcot\Desktop\day 2\prog4.py (3.10.7)

File Edit Format Run Options Window Help

```
#collections
lst = [10,20,30,40,50]
print(lst)
print(type(lst))

#tuple
l=(10,20,30,40,50)
print(l)
print(type(l))

#set
s={100,200,300,400,500}
print(s)
print(type(s))
```

IDLE Shell 3.10.7

File Edit Shell Debug Options Window Help

```
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep  5 2022, 14:08:36) [
MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more i
nformation.
>>>
================ RESTART: C:\Users\elcot\Desktop\day 2\prog4.
py ================
[10, 20, 30, 40, 50]
<class 'list'>
(10, 20, 30, 40, 50)
<class 'tuple'>
{400, 100, 500, 200, 300}
<class 'set'>
>>>
```

Ln: 1 Col: 0

Type here to search

ENG IN 18:22 05-10-2022

prog3.py - C:\Users\elcot\Desktop\day 2\prog3.py (3.10.7)

File Edit Format Run Options Window Help

```
a=10
b=20
print(a/b)
print(a-b)
print(a/b)
print(a*b)
```

IDLE Shell 3.10.7

File Edit Shell Debug Options Window Help

```
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep  5 2022, 14:08:36) [MSC v
.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more inform
ation.
>>>
================ RESTART: C:\Users\elcot\Desktop\day 2\prog3.py ==
==============
0.5
-10
0.5
200
>>>
```

Ln: 1 Col: 0

Type here to search

ENG IN 18:21 05-10-2022

File Edit View

PRACTICE PYTHON IN IDLE

primenumber.py - C:\Users\elcot\Desktop\day 2\primenumber.py (3.10.7)

File Edit Format Run Options Window Help

```
# Python program to display all the prime numbers within an interval
# change the values of lower and upper for a different result

lower = 1
upper = 50

# uncomment the following lines to take input from the user
#lower = int(input("Enter lower range: "))
#upper = int(input("Enter upper range: "))

print("Prime numbers between",lower,"and",upper,"are:")

for num in range(lower,upper + 1):
   # prime numbers are greater than 1

   if num > 1:
       for i in range(2,num):

           if (num % i) == 0:
               break

       else:
           print(num)
```

IDLE Shell 3.10.7

File Edit Shell Debug Options Window Help

```
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep  5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)
] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>

========== RESTART: C:\Users\elcot\Desktop\day 2\primenumber.py ==========
Prime numbers between 1 and 50 are:
2
3
5
7
11
13
17
19
23
29
31
37
41
43
47
>>>
```

Type here to search

ENG IN 18:12 05-10-2022

multiplicationtable.py - C:\Users\elcot\Desktop\day 2\multiplicationtable.py (3.10.7)

File Edit Format Run Options Window Help

```
# Using while loop

num = 14

# To take input from the user
# num = int(input("Display multiplication table of? "))

count = 1

while count < 11:
  print(num, ' x ', count, ' = ', num * count)
  count = count + 1
```

IDLE Shell 3.10.7

File Edit Shell Debug Options Window Help

```
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep  5 2022, 14:08:36) [MSC
v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more info
rmation.
>>>
========= RESTART: C:\Users\elcot\Desktop\day 2\multiplicationta
ble.py =========
14  x  1  =  14
14  x  2  =  28
14  x  3  =  42
14  x  4  =  56
14  x  5  =  70
14  x  6  =  84
14  x  7  =  98
14  x  8  =  112
14  x  9  =  126
14  x  10  =  140
>>>
```

Ln: 1 Col: 0

Type here to search

ENG IN 18:13 05-10-2022

dectobin.py - C:\Users\elcot\Desktop\day 2\dectobin.py (3.10.7)

File Edit Format Run Options Window Help

```
def convertToBinary(n):
   # Function to print binary number for the input decimal using recursion
   if n > 1:
       convertToBinary(n//2)
   print(n % 2,end = '')

# decimal number
dec = 175

convertToBinary(dec)
print()
```

IDLE Shell 3.10.7

File Edit Shell Debug Options Window Help

```
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep  5 2022, 14:08:36) [MSC v.1933 64 bit
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: C:\Users\elcot\Desktop\day 2\dectobin.py ==========
=
10101111
>>>
```

Col: 1

Type here to search

ENG IN 18:14 05-10-2022

countvowels.py - C:\Users\elcot\Desktop\day 2\countvowels.py (3.10.7)

File Edit Format Run Options Window Help

```
# string of vowels
vowels = 'aeiou'

# change this value for a different result
ip_str = 'Hello, have you tried our tutorial section yet?'

# uncomment to take input from the user
#ip_str = input("Enter a string: ")

# make it suitable for caseless comparisons
ip_str = ip_str.casefold()

# make a dictionary with each vowel a key and value 0
count = {}.fromkeys(vowels, 0)

# count the vowels
for char in ip_str:
    if char in count:
        count[char] += 1

print(count)
```

IDLE Shell 3.10.7

File Edit Shell Debug Options Window Help

```
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep  5 2022, 14:08:36) [MSC v.1933 64 bit
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: C:\Users\elcot\Desktop\day 2\countvowels.py ==========
=
{'a': 2, 'e': 5, 'i': 3, 'o': 5, 'u': 3}
>>>
```

Ln: 18 Col: 21

Type here to search

ENG IN 18:15 05-10-2022

calender.py - C:\Users\elcot\Desktop\day 2\calender.py (3.10.7)

File Edit Format Run Options Window Help

```
# import module
import calendar

yy = 2022
mm =10

# To ask month and year from the user
# yy = int(input("Enter year: "))
# mm = int(input("Enter month: "))

# display the calendar
print(calendar.month(yy, mm))
```

IDLE Shell 3.10.7

File Edit Shell Debug Options Window Help

```
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep  5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: C:\Users\elcot\Desktop\day 2\calender.py ==========
    October 2022
Mo Tu We Th Fr Sa Su
                1  2
 3  4  5  6  7  8  9
10 11 12 13 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30
31

>>>
```

Ln: 1 Col: 0

Type here to search

ENG IN 18:16 05-10-2022