assignment1

May 18, 2024

[ ]:
```
1.convert an integer to a floating-point number
```

[83]:
```
a = 565
b = 500
type(a+b)
```

[83]:
```
int
```

[84]:
```
print(a+b)
```

```
1065
```

[169]:
```
float
```

[169]:
```
float
```

[187]:
```
type(a+b)
```

[187]:
```
float
```

[188]:
```
print(a+b)
```

```
1065.0
```

[ ]:
```
2. Convert a float to an integer
```

[20]:
```
x = 2000.0
y - 500
type(x+y)
```

[20]:
```
float
```

[21]:
```
print(x+y)
```

```
2565.0
```

[24]:
```
z = int(2565.0)
type(z)
```

[24]:
```
int
```

[23]:
```
print(z)
```

```
2565
```

[ ]:
```
3. Convert an integer to a string
```

[143]:
```
no = 785
print(no)
```

```
785
```

[122]:
```
type(no)
```

[122]:
```
int
```

[167]:
```
str(no)
```

[167]:
```
'785'
```

[168]:
```
type(no)
```

[168]:
```
str
```

[ ]:
```
4. Convert a list to a tuple
```

[25]:
```
abc = [1, 2, 3, 4, 5]
```

[52]:
```
type(abc)
```

[52]:
```
list
```

[53]:
```
print(abc)
```

```
[1, 2, 3, 4, 5]
```

[54]:
```
abc = tuple([1, 2, 3, 4, 5])
```

[55]:
```
type(abc)
```

[55]:
```
tuple
```

[56]:
```
print(abc)
```

```
(1, 2, 3, 4, 5)
```

[ ]:
```
5. convert a tuple to a list
```

[57]:
```
xyz = (601, 702, 803, 904)
```

[58]:
```
type(xyz)
```

[58]:
```
tuple
```

[59]:
```
print(xyz)
```

```
(601, 702, 803, 904)
```

[62]:
```
xyz = list[(601, 702, 803, 904)]
```

[65]:
```
print(xyz)
```

```
list[601, 702, 803, 904]
```

[66]:
```
type(xyz)
```

[66]:
```
types.GenericAlias
```

[ ]:
```
6. Convert a deciaml to a binary
```

[92]:
```
1 | 2 | 7 | 3
```

[92]:
```
7
```

[93]:
```
bin(1)
```

[93]:
```
'0b1'
```

[94]:
```
bin(2)
```

[94]:
```
'0b10'
```

[95]:
```
bin(7)
```

[95]:
```
'0b111'
```

[96]:
```
bin(3)
```

[96]:
```
'0b11'
```

[ ]:
```
7. convert a non-zero number to boolean
```

[53]:
```
1
```

[53]:
```
1
```

[54]:
```
bool(1)
```

[54]:
```
True
```

[55]:
```
0
```

[55]:
```
0
```

[56]:
```
bool(0)
```

[56]:
```
False
```

[ ]:
```

```