Facultad de Ciencia

Departamento de Matemática y Ciencia de la Computación

Paradigmas de programación

Semestre 2021-01

Ejercicios de ayudantía

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29 de abril de 2021

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1.1 Ejemplos

1. tupla

```
tup = (1 , 2)

for v in tup:
    print(v)
```

2. lista

```
lis = [0, 2, 4, 6]
lis.append(11)

for v in lis:
    print(v//2, v%2)
```

3. funcion

```
def funp(value):
    while value > 0:
        yield value
        value -= 1
    else:
        return 0

for v in funp(5):
    print("funp: " + str(v+1))
```

4. lista de funciones

```
lisf = [lambda x, y: x**2 + y, lambda x, y: x + y**2]

for f in lisf:
    print("f({},{}) = {}".format(2, 3, f(2,3)))
```

5. string

```
st = "hola"

for c in st:
    print("letra {}".format(c))
```

6. conjunto

```
try:
    myset = { "algo", 4 , [1, 2]}
    for e in myset:
        print("{}".format(e))
except TypeError as E:
    print("TypeError:", E)

myset2 = { "algo", 4 , (1, 2)}
for e in myset2:
    print("{} {}".format(e, type(e)))
```

7. diccionarios

```
dic = { "llave1" : "valor1"
        , 2 : 32
        , 4 : "cabello"
        , "9" : 48
       }

dic2 = {"2": 456, 48 : 'casi', 22 : 416, 100 : "no", "que", "queue"}

for k in dic:
    print("dic[{}] = {}".format(k, dic[k]))

for i in range(101):
    if i in dic2:
        print((i, type(i)), (dic2[i], type(dic2[i])))
```