1.

2.

3.

4.

```
def addnuminout(inout x:Int,inout y:Int):
    x=lyy=2
    return x+y
a=19;b=20
print("Initial value of variables",a,b)
print(addnuminout(a,b))
print("Variables in main now",a,b)

def addnumborrow(borrowed x:Int,borrowed y:Int):
    x=5;y=6
    print("value in borrow function",x,y)
    return x+y
print(addnumborrow(a,b))
print("value outside borrow function",a,b)

    13s

Initial value of variables 10 20
3
Variables in main now 1 2
value in borrow function 5 6
11
value outside borrow function 1 2
```

5.

6.

```
@value
struct MyPet:
    var name: String
    var age: Int

    fn __init__(inout self, name: String, age: Int):
        self.name = name
        self.age = age
    fn __del__(owned self):
        print("deleted self", self.name)

fn pets():
    var pet2 = MyPet("cat", 4)
        print(pet2.name)
    pets()

pets()

vo.55

cat
4
deleted self cat
```

7.

```
struct MyPet:
    var name: String
    var age: Int

fn __init__(inout self):
    self.name = "name not found"
    self.age = 0

fn __init__(inout self, name: String, age: Int):
    self.name = name
    self.age = age

    var pet = MyPet()
    var pet = MyPet()
    var pet2 = MyPet("cat", 4)

    print(pet.name)
    print(pet.age)

    print(pet2.age)

print(pet2.age)

128)    v    055

...    name not found
    0
    cat
    4
```