Practice Questions - IP

Write the code questions.

1. WAP to print Hello World on the console.
2. WAP to prompt the user for First and Last name in separate lines and print the full name in the format <*Last name*> <*space*> <*First name*>
3. WAP to take a number as input and print if it's divisible by 3.
4. WAP to prompt the user for name and age, and print the number of years it will take for them to turn 60.
5. WAP to take a long string as input and print if the number of characters is greater than 10.
6. WAP to take a word as input and print if its singular or plural. [You can assume that a plural word always ends with *'s'*]
7. WAP to take a long statement as input and print the 3rd word.
8. WAP with a function and supporting code to add two numbers taken as parameters and returns the solution.
9. Write functions for Q5-7.
10. Make a module named 'Utils' with all the functions created in Q9,10. And use it in a program.

What will the output be?

1.

```
print 2/3
print 2.0/3
print 2/3.0
print 2.0/3.0
print 1.0*2/3
print 1.0*(2/3)
```

2.

```
a = True
b = False
c = False

if a or b and c:
    print "Python is life"
else:
    print "YOLO."
```

3.

```
def r(q):
      return q * 2
def s(q):
      return q * 3
x = 2
x = r(x)
x = s(x)
x = r(x)
print x
```

4.

```
a = True
b = False
c = False

if not a or b:
    print 1
elif not a or not b and c:
    print 2
elif not a or b or not b and a:
    print 3
else:
    print 4
```

5.

```
a = 8.5
b = 2
print a/b
print a//b
```

6.

```
count = 1

def f1():
    global count
    count += 1

def f2():
    count = 1

count += 1
```

```
print count
f2()
print count
count += 1
f1()
print count
```

7.

```
a = "IIIT Delhi is life"
print a.split()[0] + a.split()[-1]
```

8.

```
def fun(x):
      x = float(x)
      L = x
      L = (L + x/L)/2
      L = (L + x/L)/2
      L = (L + x/L)/2
      L = (L + x/L)/2
      L = (L + x/L)/2
      return L

print fun(100)
```

9.

```
def s(x):
      return x*x

a = 20
print s(s(s(s(a))))
```

10.

```
def f(x):
      if x==0:
            return 1
      else:
            return x*f(x-1)

print f(4)
```