

Practice Questions and Solutions- IP

Write the code questions.

1. WAP to print Hello World on the console.

```
print 'Hello World'
```

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>

```
fname = raw_input()
lname = raw_input()
print lname, fname
```

3. WAP to take a number as input and print if it's divisible by 3.

```
a = int(raw_input('Number: '))
if a%3==0:
    print 'Yes'
else:
    print 'No'
```

4. WAP to prompt the user for name and age, and print the number of years it will take for them to turn 60.

```
name = raw_input('Name: ')
age = int(raw_input('Age: '))
print 60-age
```

5. WAP to take a long string as input and print if the number of characters is greater than 10.

```
s = raw_input()
print len(s) > 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']

```
w = raw_input()
if w[-1] == 's':
    print 'Plural'
else:
```

```
print 'Singular'
```

7. WAP to take a long statement as input and print the 3rd word.

```
s = raw_input()
print s.split()[2]
```

8. WAP with a function and supporting code to add two numbers taken as parameters and returns the solution.

```
def add(a, b):
    return a + b

print add(23, 62)
```

9. Write functions for Q5-7.

```
def isLong(s):
    return len(s) > 10

def isPlural(w):
    return w[-1] == 's'

def thirdWord(s):
    return s.split()[2]
```

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)
```

//Output

```
0
0.666666666667
0.666666666667
0.666666666667
0.666666666667
0.0
```

2.

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

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

```
//Output
Python is life
```

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
```

```
//Output
24
```

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
```

//Output

```
3
```

5.

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

//Output

```
4.25
```

```
4.0
```

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
```

//Output

```
2
```

```
2
```

```
4
```

7.

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

//Output

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)
```

//Output

10.032578511

9.

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

```
a = 20
```

```
print s(s(s(s(a))))
```

//Output

65536000000000000000

10.

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

```
print f(4)
```

//Output

24