

# Questionnaires

## Questionnaire Week 1

### 1. Given this piece of code, which is the expected output?

```
f = open ('student.txt', 'r')
for line in f:
    print line
```

- It prints the first line of the document.
- It prints the entire document
- It prints nothing

### 2. Which of the following fragments of code should be used to ensure that two variables are integers?

```
if (int(a) and int(b))
```

```
if (float(a) and float(b))
```

```
if (type(a) == int and type(b) == int)
```

```
if (type(a) == int or type(b) == int)
```

### 3. Which of the following sentences are correct:

The str() function serves to concatenate strings with numbers.

The str() function facilitates the conversion into strings of non-strings variables.

The str() function converts strings to numbers

The str() returns the size of a string

### 4. Which of the following methods can be used to print a sequence of numbers (0 to 10)?

```
#Option 1
for num in range (10):
    print num
```

```
#Option 2
count = 0
```

```
while count < 10:  
    print count
```

```
#Option 3  
for num in range (11):  
    print num
```

```
#Option 4  
count = 0  
while count < 11:  
    print count  
    count += 1
```

5. Considering a file full of numbers (each line corresponds to a single float), which of the following code fragments is correct if we want to sum all the numbers in the file?

```
#Option 1  
result = 0  
for line in f:  
    result += line
```

```
#Option 2  
result = 0  
for line in f:  
    int(line)  
    result += line
```

```
#Option 3  
result = 0  
for line in f:  
    float(line)  
    result += line
```

```
#Option 4  
result = 0  
for line in f:  
    result += float(line)
```

**6. Correct the following code to calculate the mean in the following function:**

```
function mean (values)
  if (type(values) != list):
    if (type(values) == int or type (values) == float)
      return values
    else:
      return 0
  result = 0
  for value to range (values):
    result += value

  result = result/values.length()
```

```
#Solution
def mean (values):
  if (type(values) != list):
    if (type(values)== int or type (values) == float):
      return values
    else:
      return 0
  result =0
  for value in values:
    result += value

  result= float(result)/len(values)
  return result
```