Python

Python and R for Data Science

Data Science and Management



- 1. Define two variables a and b with intial values 10 and 12, respectively.
- 2. Define the variable c as the sum of a and b
- 3. Print c

```
In [1]: # Solution goes here
```

Run this code to test your solution:

```
In [2]: try: assert c == (a + b) and c == 22 and not print("Test passed")
    except: print('Test failed')
```

1. Compute the area of a triangle with:

• base: 5.0

• height: 7.5

- 2. Store the result in the variable area
- 3. Print the area

```
In [4]: # Solution goes here
```

Run this code to test your solution:

```
In [5]: try: assert area == 17.5 and not print("Test passed")
    except: print('Test failed')
```

- 1. Compute the volume of a cube with side equal to 8.0
- 2. Store the result in the variable volume
- 3. Print the area

```
In [7]: # Solution goes here
```

Run this code to test your solution:

```
In [8]:
try: assert volume == 512 and not print("Test passed")
except: print('Test failed')
```

- 1. Define:
 - x equal to 10
 - y equal to 20
- 2. Compute the result of:

$$\frac{(x-4)^3+5}{4\cdot (y\mod 3)}$$

- 3. Store the result in the variable result
- 4. Print the result

```
In [10]: # Solution goes here
```

Run this code to test your solution:

```
In [11]:
    try: assert result == 27.625 and not print("Test passed")
    except: print('Test failed')
```

- 1. Define the string s equal to Bazinga!
- 2. Count the number of characters in s and store it in the variable length
- 3. Print length

```
In [13]: # Solution goes here
```

Run this code to test your solution:

```
In [14]:
    try: assert length == 8 and not print("Test passed")
    except: print('Test failed')
```