

- c** 1. What is the result of the following operation in Python?
37/3 – just 1 answer
(a) 13.0
(b) 12.0
(c) 12 or 12.333333333334 depending on the Python version
(d) 12
- b** 2. What is the result of `int(4+6/2+2*2)`?
(a) 9
(b) 11
(c) 11.0
(d) 14
- b** 3. What is the difference between the 2 following expressions?
`val = 1234567` and `val = 1.234567 * 10 ** 6`
(a) The value of the variable `val` in the first expression is different from the value of the variable `val` in the second expression.
(b) In the first expression `val` is of type `int`, in the second `val` is of type `float`. Numerical value is the same.
(c) No difference.
(d) The 2 values are not equal
- a** 4. What are the values of the variables `a`, `b`, `c` and `d` after the following statements have been executed?
- ```
a=1
b=2
c=a + b
a = b
a = c
d=a + c
```
- (a) `a` will be 3, `b` will be 2, `c` 3 and `d` 6.  
(b) `a` will be 2, `b` will be 2, `c` 3 and `d` 4  
(c) `a` will be 3, `b` will be 2, `c` 3 and `d` 4.  
(d) `a` will be 3, `b` will be 1, `c` 3 and `d` 4.
5. How many reserved words (keywords) we have in Python? How many are starting with the letter "f"? How about with "k"? What is the most used first letter and how many times it will appear?

- B** 6. Suppose  $x = 1$ ,  $y = -1$ , and  $z = 1$ . What will be displayed by the following statement?

```
if x > 0:
 if y > 0:
 print("x > 0 and y > 0")
elif z > 0:
 print("x < 0 and z > 0")
```

- A.  $x > 0$  and  $y > 0$
- B.  $x < 0$  and  $z > 0$
- C.  $x < 0$  and  $z < 0$
- D. nothing displayed

- C** 7. The following code displays \_\_\_\_\_.

```
temperature = 50
if temperature >= 100:
 print("too hot")
elif temperature <= 40:
 print("too cold")
else:
 print("just right")
```

- A. too hot
- B. too cold
- C. just right
- D. too hot too cold just right

- A,B,D** 8. Which of the Boolean expressions below is incorrect?

- A.  $\text{True and } 3 \Rightarrow 4$
- B.  $!(x > 0) \text{ and } (x > 0)$
- C.  $(x > 0) \text{ or } (x < 0)$
- D.  $(x \neq 0) \text{ or } (x = 0)$
- E.  $(-10 < x < 0)$

- A** 9. What is  $y$  after the following statement is executed?

```
x = 0
y = 10 if x > 0 else -10
```

- A. -10
- B. 0
- C. 10
- D. 20
- E. Illegal expression

A,C,D10. Which of the following statements are True?

- A.  $(x > 0 \text{ and } x < 10)$  is same as  $(x > 0 \text{ and } x < 10)$
- B.  $(x > 0 \text{ or } x < 10)$  is same as  $(0 < x < 10)$
- C.  $(x > 0 \text{ or } x < 10 \text{ and } y < 0)$  is same as  $(x > 0 \text{ or } (x < 10 \text{ and } y < 0))$
- D.  $(x > 0 \text{ or } x < 10 \text{ and } y < 0)$  is same as  $((x > 0 \text{ or } x < 10) \text{ and } y < 0)$