|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task. No.: | 1 | Points: | 1 | **One answer is correct.** |

|  |
| --- |
| Which of the following is a valid variable name in Python? |

|  |  |  |
| --- | --- | --- |
| A |  | my\_first\_variable |
| B |  | my first variable |
| C |  | my-first-variable |
| D |  | my.first.variable |
| E |  | None of the above |

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| Task. No.: | 2 | Points: | 1 | **One answer is correct.** |

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| --- |
| What is the output of this program? |

|  |  |  |
| --- | --- | --- |
| A |  | 6 {’orange’, ‘pear’, ’orange’, ’banana’, ’kiwi’} orange |
| B |  | 6 {‘pear’,’banana’,’orange’,’kiwi’} orange |
| C |  | 4 {‘pear’,’banana’,’orange’,’kiwi’} orange |
| D |  | 6 {‘pear’,’banana’,’orange’,’kiwi’} Error |
| E |  | 4 {‘pear’,’banana’,’orange’,’kiwi’} Error |

|  |
| --- |
| 1 #!/usr/bin/env python3 fruits = {'apple', 'orange', 'apple', 'pear','orange', 'banana'} 3 print(len(fruits)) 4 fruits.remove('apple') 5 fruits.add('kiwi') 6 print(fruits) 7 print(fruits[2]) |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task. No.: | 3 | Points: | 1 | **One answer is correct.** |

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| --- |
| When uniqueness for the elements is needed which of the following data structures should be used? |

|  |  |  |
| --- | --- | --- |
| A |  | dictionary |
| B |  | set |
| C |  | list |
| D |  | tuple |
| E |  | All of the above |

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| Task. No.: | 4 | Points: | 1 | **One answer is correct.** |

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| --- |
| When data is being constantly modified and fast lookup for it is needed which of the following data structures is more suitable? |

|  |  |  |  |
| --- | --- | --- | --- |
| A |  | set |  |
| B |  | dictionary |  |
| C |  | list |  |
| D |  | tuple |  |
| E |  | None of the above |  |

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| --- | --- | --- | --- | --- |
| Task. No.: | 5 | Points: | 1 | **One answer is correct.** |

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| --- |
| What is the output of this code? |

|  |  |  |
| --- | --- | --- |
| A |  | 1 |
| B |  | 2 |
| C |  | 3 |
| D |  | 4 |
| E |  | 5 |

|  |
| --- |
| 1 #!/usr/bin/env python3 setl = {1, 2, 3, 4, 5, 6} set2 = {0, 1, 2, 3} & setl 4 print(len(list(set2))) |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task. No.: | 6 | Points: | 1 | **One answer is correct.** |

|  |
| --- |
| Which of the following prints only the items in the *set1* that are not in the *set2*? |

|  |  |  |
| --- | --- | --- |
| A |  | print (set1 | set2) |
| B |  | print (set1 & set2) |
| C |  | print (set1 + set2) |
| D |  | print (set1 - set2) |
| E |  | print (set1 ^ set2) |

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| Task. No.: | 7 | Points: | 1 | **One answer is correct.** |

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| --- |
| What is the result of this code? |

|  |  |  |
| --- | --- | --- |
| A |  | 17 |
| B |  | 7 |
| C |  | 4 |
| D |  | 3 |
| E |  | 2 |

|  |
| --- |
| 1 #!/usr/bin/env python3 primes = {1: 2, 2: 3, 4: 7, 7:17} 3 print(primes[primes[4]]) |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task. No.: | 8 | Points: | 1 | **One answer is correct.** |

|  |
| --- |
| What is the output of this code? |

|  |  |  |
| --- | --- | --- |
| A |  | TypeError |
| B |  | 2 |
| C |  | 6 |
| D |  | 5 |
| E |  | 11 |

|  |
| --- |
| 1 #!/usr/bin/env python3 set = {1: 1, 2: 1, 3: 2, 4: 3} print(set.get(4) + set.get(7,2)) |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task. No.: | 9 | Points: | 1 | **One answer is correct.** |

|  |
| --- |
| Which of the following data structures is a mutable ordered container? |

|  |  |  |
| --- | --- | --- |
| A |  | tuple |
| B |  | list |
| C |  | dictionary |
| D |  | set |
| E |  | All of the above. |

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| Task. No.: | 10 | Points: | 1 | **One answer is correct.** |

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| --- |
| What is the output of this code? |

|  |  |  |
| --- | --- | --- |
| A |  | 10 |
| B |  | 9 |
| C |  | 7 |
| D |  | 6 |
| E |  | 5 |

|  |
| --- |
| 1 #!/usr/bin/env python3 nums = [10, 9, 8, 7, 6, 5] nums[l] = nums[2] - 5 4 if 3 in nums: 5 print(nums[3]) 6 else: print(nums[4]) |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task. No.: | 11 | Points: | 1 | **One answer is correct.** |

|  |
| --- |
| Which line of code cause an error? |

|  |  |  |
| --- | --- | --- |
| A |  | Line 1 |
| B |  | Line 2 |
| C |  | Line 3 |
| D |  | Line 4 |
| E |  | Line 5 |

|  |
| --- |
| 1 #!/usr/bin/env python3 num = [5, 4, 3, [2], "Hello 3 print(num[0]) 4 print(num[3][0]) 5 print(num[4][4]) 6 print(num[5]) |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task. No.: | 12 | Points: | 1 | **One answer is correct.** |

|  |
| --- |
| What is the output of this code? |

|  |  |  |
| --- | --- | --- |
| A |  | [4,9,8,7,6,5,2,11] |
| B |  | [9,8,7,6,5,4,2,11] |
| C |  | [9,8,7,6,5,11,4] |
| D |  | [9,8,11,7,6,5,4] |
| E |  | [9,8,2,7,6,5,4,11] |

|  |
| --- |
| 1 #!/usr/bin/env python3 nums = [9, 8, 7, 6, 5] 3 nums.append(4) 4 nums.insert(2, 11) 5 print(nums) |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task. No.: | 13 | Points: | 1 | **One answer is correct.** |

|  |
| --- |
| What is the output of this code? |

|  |  |  |
| --- | --- | --- |
| A |  | 0 ValueError |
| B |  | 1 TypeError |
| C |  | 1 ValueError |
| D |  | 1 IndexError |
| E |  | 1 TypeError |

|  |
| --- |
| 1 #!/usr/bin/env python3 letters = ['a','b','c','d'] print(letters.index('b')) 4 print(letters.index('e')) |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task. No.: | 14 | Points: | 1 | **One answer is correct.** |

|  |
| --- |
| Which of the following is True about tuples? |

|  |  |  |
| --- | --- | --- |
| A |  | Tuples are very similar to lists, except that they cannot be changed. |
| B |  | You can access the values in the tuple with their index |
| C |  | They are created using parentheses. |
| D |  | Trying to reassign a value in a tuple causes a TypeError. |
| E |  | All of the above |

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| --- | --- | --- | --- | --- |
| Task. No.: | 15 | Points: | 1 | **One answer is correct.** |

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| --- |
| What is the output of this code? |

|  |  |  |
| --- | --- | --- |
| A |  | 3 |
| B |  | 4 |
| C |  | 2 |
| D |  | 1 |
| E |  | SyntaxError |

|  |
| --- |
| #!/usr/bin/env python3 nums = (4, 3, 2, 1) print(max(min(nums[:2]), abs(-2))) |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task. No.: | 16 | Points: | 1 | **One answer is correct.** |

|  |
| --- |
| What is the output of this code? |

|  |  |  |
| --- | --- | --- |
| A |  | 3 |
| B |  | 5 |
| C |  | 7 |
| D |  | 3 5 |
| E |  | 3 5 7 |

|  |
| --- |
| 1 #!/usr/bin/env python3 2 num = 7 3 if num > 3: 4 print("3") 5 if num < 5: 6 print("5") if num ==7: 8 print("7") |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task. No.: | 17 | Points: | 1 | **One answer is correct.** |

|  |
| --- |
| What is the output of this code? |

|  |  |  |
| --- | --- | --- |
| A |  | teenager |
| B |  | not teenager |
| C |  |  |
| D |  |  |
| E |  |  |

|  |
| --- |
| age = 15 status = ('teenager' if age > 12 and age < 20 else 'not teenager') print(status) |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task. No.: | 18 | Points: | 1 | **One answer is correct.** |

|  |
| --- |
| What is the output of this code? |

|  |  |  |
| --- | --- | --- |
| A |  | 1 2 4 5 6 |
| B |  | 1 2 3 4 |
| C |  | 1 2 4 |
| D |  | 1 2 3 4 5 6 |
| E |  |  |

|  |
| --- |
| #!/usr/bin/env python3 i = 0 while i<7: i += 1 if i==3: continue if i==5: break print(i) |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task. No.: | 19 | Points: | 1 | **One answer is correct.** |

|  |
| --- |
| What is the highest number output by this code? |

|  |  |  |
| --- | --- | --- |
| A |  | 0 |
| B |  | 1 |
| C |  | 0 1 2 3 4 |
| D |  | 0 1 2 3 |
| E |  |  |

|  |
| --- |
| 1 #!/usr/bin/env python3 def printnums(x): 3 for i in range(x): 4 print(i) 5 return 6 print_nums(4) |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task. No.: | 20 | Points: | 1 | **One answer is correct.** |

|  |
| --- |
| What is the output of this code? |

|  |  |  |
| --- | --- | --- |
| A |  | 4 |
| B |  | 10 |
| C |  | 6 |
| D |  | 12 |
| E |  |  |

|  |
| --- |
| 1 #!/usr/bin/env python3 def func(x): 3 res = 0 4 for i in range(x): 5 res += i 6 return res print(func(4)) |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task. No.: | 21 | Points: | 1 |  |

|  |
| --- |
| Which of the following is False about this code? |

|  |  |  |
| --- | --- | --- |
| A |  | It defines two methods. |
| B |  | It defines two attributes held by each of the instances of the class. |
| C |  | The method is\_teenager()does not return anything. |
| D |  | The method birthday() does not return anything. |
| E |  | The las out put is *John is 18*. |

|  |
| --- |
| 1 #!/usr/bin/env python3 2 class Person: 3 3 def 5 6 4 def 8 9 def 10 11 12 13 def 14 15 14 pi = Person('John', 36) 15 print (pi.name, 'is', pi.age) 16 print('pi.is teenager’, pi.is teenagerO) 17 pl.birthdayO 18 pi.age = 18 19 print(pl) _init_(self, name, age): self.name = name self.age = age _str_(self ) : return self.name + ' is ’ + str(self.age) birthday(self): print ('Happy birthday you were’, self.age) self.age += 1 print('You are now', self.age) is_teenager(self): return self.age < 20 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task. No.: | 22 | Points: | 1 | **One answer is correct.** |

|  |
| --- |
| What happens if you open an existing file in write mode and then immediately close it? |

|  |  |  |
| --- | --- | --- |
| A |  | Nothing changes. |
| B |  | A blank line is written to the file. |
| C |  | The file contents are deleted. |
| D |  |  |
| E |  |  |

|  |
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|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task. No.: | 23 | Points: | 1 | **One answer is correct.** |

|  |
| --- |
| What is the output of this code? |

|  |  |  |
| --- | --- | --- |
| A |  | 12 |
| B |  | 11 |
| C |  | 10 |
| D |  | SyntaxError |
| E |  |  |

|  |
| --- |
| 1 #!/usr/bin/env python3 2 file = open("newfile.txt", "w") cnt = file.write("Hello world!") 4 print(cnt) 5 file.closed |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task. No.: | 24 | Points: | 1 | **One answer is correct.** |

|  |
| --- |
| What is the output of this code? |

|  |  |  |
| --- | --- | --- |
| A |  | 1 3 2 4 |
| B |  | 1 3 4 |
| C |  | 1 ZeroDivisionError 2 4 |
| D |  | 1 ZeroDivisionError 4 |
| E |  |  |

|  |
| --- |
| 1 #!/usr/bin/env python3 2 try: 3 print(1) 4 print(20 / 0) 5 print(2) 6 except ZeroDivisionError print(3) 8 finally: 9 print(4) |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task. No.: | 25 | Points: | 1 | **One answer is correct.** |

|  |
| --- |
| Which of the following does open the file in binary write mode? |

|  |  |  |
| --- | --- | --- |
| A |  | open("test.txt", "ab") |
| B |  | open("test.txt", "x") |
| C |  | open("test.txt", "b") |
| D |  | open("test.txt", "w") |
| E |  | open("test.txt", "wb") |

|  |
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| --- | --- | --- | --- | --- |
| Task. No.: | 26 | Points: | 1 | **One answer is correct.** |

|  |
| --- |
| What is the output of this code? |

|  |  |  |
| --- | --- | --- |
| A |  | 10 5 |
| B |  | ImportError TypeError |
| C |  | TypeError ImportError |
| D |  | 10 ImportError |
| E |  | 10 NameError |

|  |
| --- |
| #!/usr/bin/env python3 from math import sqrt as squareroot import math as m print(squareroot(100)) print(math.sqrt(25)) |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task. No.: | 27 | Points: | 1 | **One answer is correct.** |

|  |
| --- |
| What error is caused by importing an unknown module? |

|  |  |  |
| --- | --- | --- |
| A |  | UnknownModuleError |
| B |  | ImportError |
| C |  | UnknownModuleError |
| D |  | TypeError |
| E |  | NameError |

|  |
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| --- | --- | --- | --- | --- |
| Task. No.: | 28 | Points: | 1 | **One answer is correct.** |

|  |
| --- |
| Assume the following is the contents of a file called *module1.py*. What is the output of the following command? |

|  |  |  |
| --- | --- | --- |
| A |  | Hello Word! one two |
| B |  | one |
| C |  | one two |
| D |  | Hello Word! one two one |
| E |  |  |

|  |
| --- |
| 1 #!/usr/bin/env python3 print('Hello World !') def f1(): 4 print('one') 5 def f2(): 6 print('two') 7 fl() 8 f 2 ( ) import module1 module1.f1() |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task. No.: | 29 | Points: | 1 | **One answer is correct.** |

|  |
| --- |
| Assume the following is the contents of a file called *module1.py*. What is the output of the following command? |

|  |  |  |
| --- | --- | --- |
| A |  | Hello Word! one two |
| B |  | one |
| C |  | one two |
| D |  | Hello Word! one two one |
| E |  |  |

|  |
| --- |
| 1 #!/usr/bin/env python3 print('Hello World !') def f1(): 4 print('one') 5 def f2(): 6 print('two') if  name  == ' main 8 fl() 9 f 2 ( ) import module1 module1.f1() |

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