

MANISA CELAL BAYAR UNIVERSITY – DEPARTMENT OF COMPUTER ENGINEERING
PROBLEM SET FOR PARALLEL PROGRAMMING

WEEK 02: DATA STRUCTURES IN PYTHON

1. What is the correct writing of the programming language that we used in this course?

- ☐ () Phyton
- ☐ () Pyhton
- ☐ () Pthyon
- ☐ () Python

2. What is the output of the code below?
`my_name = "Bora Canbula"`
`print(my_name[2::-1])`

- ☐ () alu
- ☐ () ula
- ☐ () roB
- ☐ () Bor

3. Which one is not a valid variable name?

- ☐ () for_
- ☐ () Manisa_Celal_Bayar_University
- ☐ () IF
- ☐ () not

4. What is the output of the code below?

```
for i in range(1, 5):  
    print(f"{i:2d} {(i/2):4.2f}", end='')
```

- ☐ () 010.50021.00031.50042.00
- ☐ () 10.50 21.00 31.50 42.00
- ☐ () 1 0.5 2 1.0 3 1.5 4 2.0
- ☐ () 100.5 201.0 301.5 402.0

5. Which one is the correct way to print Bora's age?

```
profs = [  
    {"name": "Yener", "age": 25},  
    {"name": "Bora", "age": 37},  
    {"name": "Ali", "age": 42}  
]
```

- ☐ () profs["Bora"]["age"]
- ☐ () profs[1][1]
- ☐ () profs[1]["age"]
- ☐ () profs.age[name="Bora"]

6. What is the output of the code below?

```
x = set([int(i/2) for i in range(8)])  
print(x)
```

- ☐ () {0, 1, 2, 3, 4, 5, 6, 7}
- ☐ () {0, 1, 2, 3}
- ☐ () {0, 0, 1, 1, 2, 2, 3, 3}
- ☐ () {0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4}

7. What is the output of the code below?

```
x = set(i for i in range(0, 4, 2))  
y = set(i for i in range(1, 5, 2))  
print(x^y)
```

- ☐ () {0, 1, 2, 3}
- ☐ () {}
- ☐ () {0, 8}
- ☐ () SyntaxError: invalid syntax

8. Which of the following sequences is immutable?

- ☐ () List
- ☐ () Set
- ☐ () Dictionary
- ☐ () String

9. What is the output of the code below?

```
print(int(2_999_999.999))
```

- ☐ () 2
- ☐ () 3000000
- ☐ () ValueError: invalid literal
- ☐ () 2999999

10. What is the output of the code below?

```
x = (1, 5, 1)  
print(x, type(x))
```

- ☐ () [1, 2, 3, 4] <class 'list'>
- ☐ () (1, 5, 1) <class 'range'>
- ☐ () (1, 5, 1) <class 'tuple'>
- ☐ () (1, 2, 3, 4) <class 'set'>