

ASSIGNMENT 9 SETS

IN THIS ASSIGNMENT YOU WILL FIND QUESTIONS RELATED TO SETS

* Required

1. Email address *

2. CERTIFICATION BATCH NO *

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- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4
- ☐ 5
- ☐ OTHERS

3. 1. Which of these about a set is not true? *

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- ☐ Mutable data type
- ☐ Allows duplicate values
- ☐ Data type with unordered values
- ☐ Immutable data type

4. 2. Which of the following is not the correct syntax for creating a set?

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- ☐ set([[1,2],[3,4]])
- ☐ set([1,2,2,3,4])
- ☐ set((1,2,3,4))
- ☐ {1,2,3,4}

5. 3. What will be the output of the following Python code? *

```
nums = set([1,1,2,3,3,3,4,4])
print(len(nums))
```

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- ☐ 7
- ☐ Error, invalid syntax for formation of set
- ☐ 4
- ☐ 8

6. 4. What will be the output of the following Python code?

```
a = [5,5,6,7,7,7]
b = set(a)
def test(lst):
    if lst in b:
        return 1
    else:
        return 0
for i in filter(test, a):
    print(i,end=" ")
```

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- ☐ 5 5 6
- ☐ 5 6 7
- ☐ 5 5 6 7 7 7
- ☐ 5 6 7 7 7

7. 5. Which of the following statements is used to create an empty set?

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- ☐ {}
- ☐ set()
- ☐ []
- ☐ ()

8. 6. What will be the output of the following Python code?

```
>>> a={5,4}
>>> b={1,2,4,5}
>>> a<b
```

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- ☐ {1,2}
- ☐ True
- ☐ False
- ☐ Invalid operation

9. 7. If $a=\{5,6,7,8\}$, which of the following statements is false?

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- ☐ print(len(a))
- ☐ print(min(a))
- ☐ a.remove(5)
- ☐ a[2]=45

10. 8. If $a=\{5,6,7\}$, what happens when `a.add(5)` is executed? *

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- ☐ $a=\{5,5,6,7\}$
- ☐ $a=\{5,6,7\}$
- ☐ Error as there is no add function for set data type
- ☐ Error as 5 already exists in the set

11. 9. What will be the output of the following Python code? *

```
>>> a={4,5,6}
>>> b={2,8,6}
>>> a+b
```

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- ☐ {4,5,6,2,8}
- ☐ {4,5,6,2,8,6}
- ☐ Error as unsupported operand type for sets
- ☐ Error as the duplicate item 6 is present in both sets

12. 10. What will be the output of the following Python code?

```
>>> a={4,5,6}
>>> b={2,8,6}
>>> a-b
```

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- ☐ {4,5}
- ☐ {6}
- ☐ Error as unsupported operand type for set data type
- ☐ Error as the duplicate item 6 is present in both sets

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