1. What will be the output of the following code?

```python
numbers = [3, 4, 6, 8, 10]
result = 0
for num in numbers:
    result += num % 3
print(result)
```

A. 2   B. 3   C. 4   D. 5

2. Consider the following code:

```python
def change_values(lst):
    for i in range(len(lst)):
        lst[i] = lst[i] * 2
    return lst

my_list = [1, 2, 3, 4]
new_list = change_values(my_list)
print(my_list)
```

What will be printed?

A) [2, 4, 6, 8]
B) [1, 2, 3, 4]
C) [2, 2, 3, 4]
D) None

3. What is the output of the following code?

```python
x = [1, 2, 3]
y = x
y.append(4)
print(x)
```

A) [1, 2, 3]

B) [1, 2, 3, 4]

C) Error

D) [4, 2, 3]

4. Consider the following code:

```python
def find_even(numbers):
    return [x for x in numbers if x % 2 == 0]

numbers = [1, 2, 3, 4, 5]
evens = find_even(numbers)
print(evens)
```

What is the output?

A) [2, 4]
B) [1, 3, 5]
C) [ ]
D) [1, 2, 3, 4, 5]

5. What will the output of the following code be?

A) Less than 5

B) Greater than 5

C) Equal to 5

```python
def check_value(x):
    if x < 5:
        return "Less than 5"
    elif x == 5:
        return "Equal to 5"
    else:
        return "Greater than 5"

result = check_value(5)
print(result)
```

D) Error

6. What is the output of the following code?\

```python
def mystery_function(num):
    if num < 0:
        return -num
    else:
        return num


print(mystery_function(-10))
```

A) -10
B) 10
C) None
D) Error

7. What does the following code do?

```python
numbers = [1, 2, 3, 4, 5]
print(len(numbers))
```

A) Prints the largest number in the list
B) Prints the last number in the list
C) Prints the number of items in the list
D) Prints the sum of the numbers in the list

8. What will this code print?

```
colors = ["red", "green", "blue"]
colors[0] = "yellow"
print(colors)
```

A) ["yellow", "green", "blue"]
B) ["red", "green", "blue", "yellow"]
C) ["yellow", "green"]
D) ["red", "yellow", "blue"]

9. What will the following code output?

```
for i in range(1, 6):
    if i % 2 == 0:
        print(i)
```

A) 1 2 3 4 5
B) 2 4
C) 0 2 4
D) 1 3 5

10. What will the following code output?

```
name = "Emily"
if len(name) > 4:
    print("Name is long")
else:
    print("Name is short")
```

A) Name is long
B) Name is short
C) Error
D) Nothing