1.

 What is the output of the following Python code?

x = 10

y = 20

if x == 10:

    x = x + y

print(x)

* 10
* 20
* 30
* None of the above

2.

What will be the output of the following code?

def print\_square(x):

    print(x \* x)

print\_square(10)

* 100
* 10
* '10'
* None of the above

3.

What is the output of the following code?

class Car:

    def \_\_init\_\_(self, color, model):

        self.color = color

        self.model = model

    def get\_color(self):

        return self.color

my\_car = Car("red", "sedan")

print(my\_car.get\_color())

* red
* sedan
* Car
* None of the above

4.

What is the output of the following code?

my\_dict = {"a": 1, "b": 2, "c": 3}

my\_set = set(my\_dict.keys())

my\_set.add("d")

print(my\_dict)

* {'a': 1, 'b': 2, 'c': 3, 'd': None}
* {'a': 1, 'b': 2, 'c': 3}
* {'a': 1, 'b': 2, 'c': 3, 'd'}
* Error

5.

What is the output of the following code?

x = 10

if x < 20:

    print("x is less than 20")

else:

    print("x is greater than or equal to 20")

* x is less than 20
* x is greater than or equal to 20
* x
* None of the above

6.

What is the mutable data type in Python?

* Tuple
* List
* Numbers
* String

7.

What does the range() function do in a for loop?

* Determines the number of times the loop will run
* Specifies the values that the loop variable will take on
* Determines the starting and ending values of the loop
* All of the above

8.

What is the output of the following code?

i = 1

while i < 5:

    print(i)

    i = i + 1

* 0 1 2 3 4
* 1 2 3 4
* 5 6 7 8
* 1 2 3 4 5

1.

 What will be the output of the following code?

a = [1, 2, 3, 4, 5]

print(a[0:3])

* [1, 2, 3, 4, 5]
* [1, 2, 3]
* [2, 3, 4]
* [1, 2]

2.

What will be the output of the following code?

def add\_numbers(x, y):

    return x + y

result = add\_numbers(3, 5)

print(result)

* 8
* 3, 5
* None
* Error

3.

 What will be the output of the following code?

numbers = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

for number in numbers:

    if number % 2 == 0:

        print(number)

    else:

        continue

* 1, 3, 5, 7, 9
* 2, 4, 6, 8, 10
* 10, 9, 8, 7, 6, 5, 4, 3, 2, 1
* 2, 4, 6, 8, 10, 1, 3, 5, 7, 9

4.

 What is inheritance in OOP?

* The ability of an object to share properties and behaviors with other objects
* The ability of an object to hide its properties and behaviors from other objects
* The ability to create objects from a class
* The ability to overload methods in a class

5.

What is the output of the following code?

x = 10

y = 15

if x > y:

  print("x is greater than y")

elif x == y:

  print("x is equal to y")

else:

  print("x is less than y")

* x is greater than y
* x is equal to y
* x is less than y
* None

6.

What is the output of the following code?

x = True

y = False

if x and y:

  print("x and y are both true")

else:

  print("x and y are not both true")

* x and y are both true
* x and y are not both true
* None
* Syntax error

7.

What is the output of the following code?

x = [1, 2, 3, 4, 5]

for i in x:

  if i % 2 == 0:

    break

  print(i)

* 1
* 1 2
* 1 2 3
* None