1. Convert the decimal number 49 to a binary number.
   49 = 110001

2. Convert the binary number 101001 to a decimal number.
   101001 = 41

3. Convert the binary number 101001 to a decimal number using a Python function
   \[
   \text{int("101001", 2)} \]

4. Write a Python program that includes the following:
   Create a class named `Person`. Include a constructor in the class that initializes the name, and the age of the person.
   In the class Person, create a method `hello()` that prints the person's name and the person’s age.
   Use the class Person that create an object with the name of Alice and the age of 20.

```python
class Person:
    def __init__(self, name, age):
        self.name = name
        self.age = age

    def hello(self):
        print(f"Hello my name is {self.name}, I am {self.age}"")

student = Person("Alice", 20)
student.hello()
```
Circle the right answer for the following statement

5. In object-oriented programming, inheritance ________
   a. Hides complexity from the users and show them only the relevant information.
   b. **Enables new objects to take on the properties of existing objects.**
   c. Hides the private properties of a class from other objects.
   d. Enables an object to take on many forms.
   e. Changes the implementation of the abstract behavior.

6. In object-oriented programming, encapsulation ________
   a. Hides complexity from the users and show them only the relevant information.
   b. Enables new objects to take on the properties of existing objects.
   c. **Hides the private properties of a class from other objects.**
   d. Enables an object to take on many forms.
   e. Changes the implementation of the abstract behavior.

7. In object-oriented programming, polymorphism ________
   a. Hides complexity from the users and show them only the relevant information.
   b. Enables new objects to take on the properties of existing objects.
   c. Hides the private properties of a class from other objects.
   d. **Enables an object to take on many forms.**
   e. Changes the implementation of the abstract behavior.