Problem 2.

For this program, you are tasked to define the following:

Class - Student:

- · Public Properties:
 - o id_number (type: int): A unique identifier for the student.
 - o name (type: str): The name of the student.
 - o course (type: str): The course the student is enrolled in.
- · Methods:
 - _str_() -> str: Returns a string representation of the student's information in the format "{id_number} - {name} - {course}".
 - validate_info() -> None: Prints the message "Student information is valid." or "Student information is not valid." indicating whether the student's information is valid. Validity criteria include:
 - The name should contain only letters.
 - . The idNumber should be exactly 9 digits long.

Note: Each class should be defined in its own file, with the file name following camelCase conventions (e.g., bankAccount.py).

Create a test class on a separate file named testStudent.py

CODE:

```
from student import Student
print(f"ID: {s1.id_number}")
print(f"Name: {s1.name}")
print(f"Course: {s1.course}")
print(f"Output:")
print(s1)
s1.validate_info()
s2 = Student( Id_number: 12345, name: "JaneDoe", course: "Mathematics")
print(f"ID: {s2.id_number}")
print(f"Course: {s2.course}")
print(s2)
s2.validate_info()
print("\n----\n")
s3 = Student( Id_number: 987654321, name: "Alice123", course: "Physics")
print(f"ID: {s3.id_number}")
print(f"Name: {s3.name}")
print(f"Course: {s3.course}")
print(f"Output:")
print(s3)
s3.validate_info()
```

OUTPUT:

```
teststudent 📦
 C:\Users\COMLAB\AppData\Local\Programs\Python\Python311\python.exe C:\User
 Action: Invoking __str__() methodwith the following Student information:
 ID: 123456789
 Name: JohnDoe
 Course: Computer Science
 Output:
 123456789 - JohnDoe - Computer Science
 Student information is valid.
 Action: Invoking __str__() methodwith the following Student information:
 ID: 12345
 Name: JaneDoe
 Course: Mathematics
 Output:
 12345 - JaneDoe - Mathematics
 Student information is not valid
 Action: Invoking __str__() methodwith the following Student information:
 ID: 987654321
 Name: Alice123
 Course: Physics
 Output:
 987654321 - Alice123 - Physics
 Student information is not valid
 Process finished with exit code 0
```