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Midterm Lab Task 6 (Constructor Activity)

PROBLEM # 2

CLASS – STUDENT:

```
class Student: 4 usages

def __init__(self, id_number: int, name: str, course: str):

self.id_number = id_number

self.name = name

self.course = course

def __str__(self) -> str:
    return str(self.id_number) + " - " + self.name + " - " + self.course

def validate_info(self) -> None: 1 usage

for ch in self.name:
    if not (ch.isalpha() or ch == " "):
        print("Student information is not valid.")

return

if len(str(self.id_number)) != 9:
    print("Student information is not valid.")

print("Student information is not valid.")

print("Student information is valid.")
```

TEST CLASS:

```
student.py
                   testStudent.py ×
      from student import Student
          print("ID:", student1.id_number)
         print("Course:", student1.course)
          print(student1)
      def test_str_with_short_id(): 1usage
          print("ID:", student2.id_number)
         print("Course:", student2.course)
         print("\nOutput:")
         print(student2)
          print("ID:", student3.id_number)
         print("Course:", student3.course)
          student3.validate_info()
         test_str_method()
          test_str_with_short_id()
         test_validate_info()
```

OUTPUT:

```
C:\Users\Patrick\PycharmProjects\PythonProject2\.venv\Scripts\python.exe C:\Users\
Action: Invoking __str__() method with the following Student information:
ID: 123456789
Name: John Doe
Course: Computer Science
Output:
123456789 - John Doe - Computer Science
Action: Invoking __str__() method with the following Student information:
ID: 12345
Name: Jane Doe
Course: Mathematics
Output:
12345 - Jane Doe - Mathematics
Action: Invoking validate_info() method with the following Student information:
ID: 987654321
Name: Alice123
Course: Physics
Output:
Student information is not valid.
```