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## Midterm Lab Task 6 (Constructor Activity) PROBLEM # 2

## CLASS – STUDENT:

```
class Student.py  
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 valid.")

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

## TEST CLASS:

```
student.py
                 testStudent.py ×
     from student import Student
     def test_str_method(): 1usage
         print("ID:", student1.id_number)
         print("Name:", student1.name)
         print("Course:", student1.course)
         print("\n0utput:")
         print(student1)
        print("-----
     def test_str_with_short_id(): 1usage
         print("Action: Invoking __str__() method with the following Student information:")
         print("ID:", student2.id_number)
         print("Name:", student2.name)
         print(student2)
        print("----")
     def test_validate_info(): 1usage
         print("Action: Invoking validate_info() method with the following Student information:")
         student3 = Student( id_number: 987654321,  name: "Alice123",  course: "Physics")
         print("ID:", student3.id_number)
         print("Name:", student3.name)
         print("Course:", student3.course)
         student3.validate_info()
         print("----")
     if __name__ == "__main__":
        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.
```