

# Lab 12 Worksheet

Name: Millan and Jerry

Class section: Period 7

1. Define a **Student** class that maintains data for the name, graduation year, and major of a student. Your class should include the following methods:
  - A constructor that takes a name and a graduation year. It also sets the student's major to initially be **"Undecided"**.
  - A *getter* method for every class variable.
  - A *setter* method for every class variable.
  - A **toString()** method that returns a string summarizing a student's name, graduation year, and major.
2. Define a **main** program that creates a *Student* object to represent you. Set your major to an appropriate value. Then use the **toString()** method to print a summary about you.

```
class Student:
    def __init__(self, name: str, graduation_year: int):
        self.name: str = name
        self.graduation_year: int = graduation_year
        self.major: str = "Undecided"

    def get_name(self) -> str:
        return self.name

    def set_name(self, name: str) -> None:
        self.name = name

    def get_graduation_year(self) -> int:
        return self.graduation_year

    def set_graduation_year(self, graduation_year: int) -> None:
        self.graduation_year = graduation_year

    def get_major(self) -> str:
```

```
        return self.major

def set_major(self, major: str) -> None:
    self.major = major

def to_string(self) -> str:
    return "Name: %s, Graduation Year: %i, Major: %s" % (
        self.name,
        self.graduation_year,
        self.major,
    )

def main():
    millan = Student("Millan", 2024)
    millan.set_major("Computer Science")

    jerry = Student("Jerry", 2024)
    jerry.set_major("Computer Science")

    print(millan.to_string())
    print(jerry.to_string())

main()
```