



ASSIGNMENT _ 06 Python_Part_Assignment_OOPs

Question 1: (5 Marks)

Build a program to manage a university's course catalog. You want to define a base class `Course` that has the following properties:

`course_code`: a string representing the course code (e.g., "CS101")

`course_name`: a string representing the course name (e.g., "Introduction to Computer Science")

`credit_hours`: an integer representing the credit hours for the course (e.g., 3)

You also want to define two subclasses `CoreCourse` and `ElectiveCourse`, which inherit from the `Course` class.

`CoreCourse` should have an additional property `required_for_major` which is a boolean representing whether the course is required for a particular major.

`ElectiveCourse` should have an additional property `elective_type` which is a string representing the type of elective (e.g., "general", "technical", "liberal arts").

```
C:\Users\pc\PycharmProjects\Assignments_python_project\.venv\Scripts\python.exe C:\
```

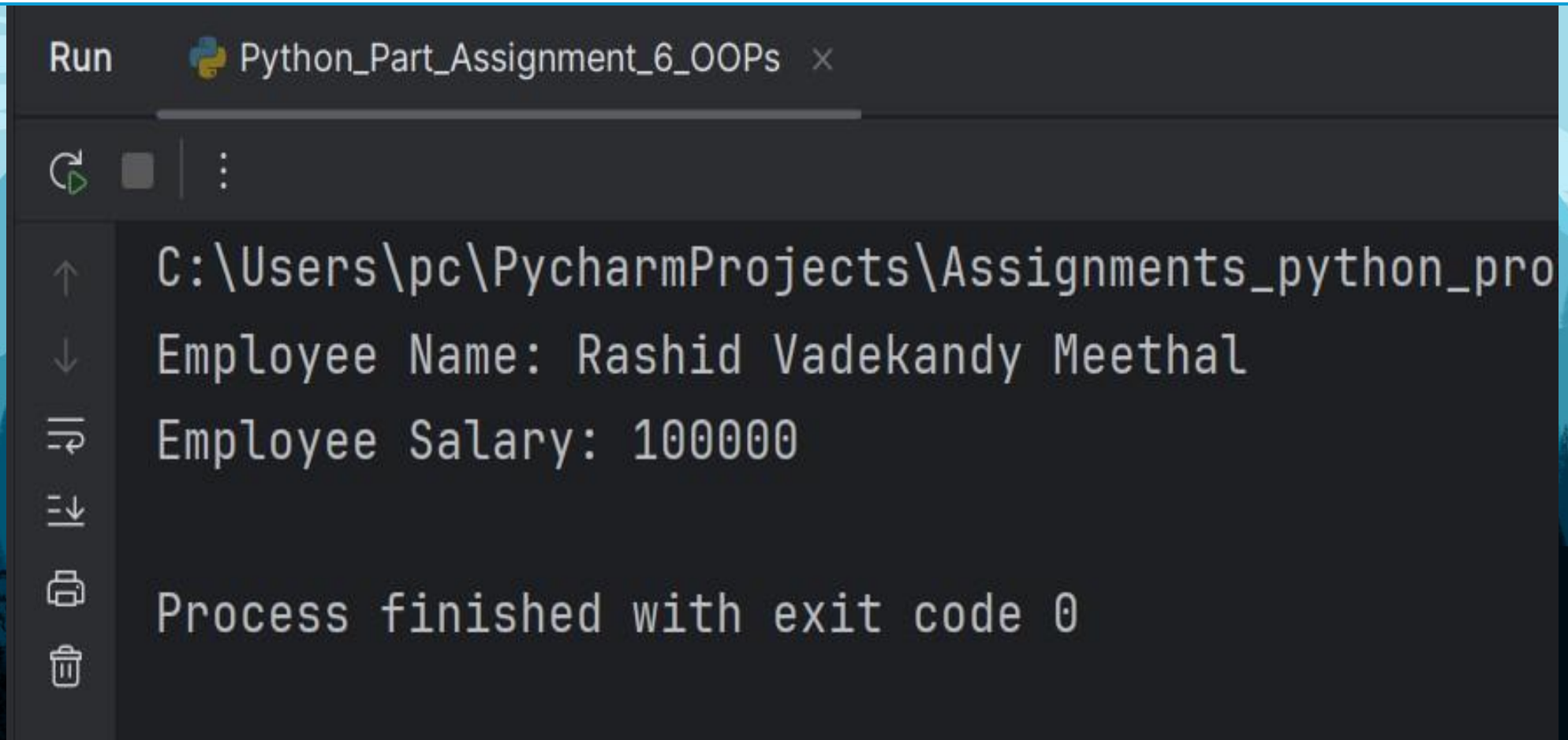
```
CS101: Introduction to Computer Science (3 credit hours) - Required for Major: Yes
```

```
ART101: Introduction to Painting (2 credit hours) - Elective Type: liberal arts
```

```
Process finished with exit code 0
```


Question 2: (5 Marks)

Create a Python module named `employee` that contains a class `Employee` with attributes `name`, `salary` and methods `get_name()` and `get_salary()`. Write a program to use this module to create an object of the `Employee` class and display its name and salary.



```
Run Python_Part_Assignment_6_OOPs x
```

```
C:\Users\pc\PycharmProjects\Assignments_python_pro  
Employee Name: Rashid Vadekandy Meethal  
Employee Salary: 100000  
  
Process finished with exit code 0
```