



pythonProject > TASKS.py

TASKS.py x Class.py x

```
253
254 class Course:
255     def __init__(self, course_code, course_name, credit_hours):
256         self.course_code = course_code
257         self.course_name = course_name
258         self.credit_hours = credit_hours
259
260 class CoreCourse:
261     def __init__(self, course_code, course_name, credit_hours, required_for_major):
262         self.course_code = course_code
263         self.course_name = course_name
264         self.credit_hours = credit_hours
265         self.required_for_major = required_for_major
266
267 class ElectiveCourse:
268     def __init__(self, course_code, course_name, credit_hours, elective_type):
269         self.course_code = course_code
270         self.course_name = course_name
271         self.credit_hours = credit_hours
272         self.elective_type = elective_type
273
274 a = CoreCourse('CS1001', 'Introduction to Computer Science', 3, True)
275 b = ElectiveCourse('AS1001', 'Introduction to Arts', 3, 'Arts')
276 print("CoreCourse:")
277 print("course_code :", a.course_code)
278 print("course_name :", a.course_name)
279 print("credit_hours:", a.credit_hours)
280 print("required_for_major:", a.required_for_major)
281
```

ElectiveCourse > __init__()

Run: TASKS x



Version Control



Run



Python Packages



TODO



Python Console



Problems



Terminal



Services



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```
280     print("required_for_major:" + a.required_for_major)
281
282     print("\nElectiveCourse:")
283     print("course_code : " + b.course_code)
284     print("course_name : " + b.course_name)
285     print("credit_hours:" + b.credit_hours)
286     print("elective_type:" + b.elective_type)
287
288
```

Run: TASKS x

```
CoreCourse:
course_code : CS1001
course_name : Introduction to Computer Science
credit_hours: 3
required_for_major: True

ElectiveCourse:
course_code : AS1001
course_name : Introduction to Arts
credit_hours: 3
elective_type: Arts

Process finished with exit code 0
```



Version Control



Run



Python Packages



TODO



Python Console



Problems



Terminal



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```
7 # that inherits from Shape and implements its own version of the area() and perimeter() methods.
8
9 class Shape:
10     def Area(self):
11         self.Area()
12     def Perimeter(self):
13         self.Perimeter()
14 class Rectangle(Shape):
15     def __init__(self, l, b):
16         self.l=l
17         self.b=b
18         self.Area=l*b
19         self.Perimeter=2*(l+b)
20
21 A=Rectangle(5,3)
22 print("Area =" ,A.Area)
23 print("Perimeter =" ,A.Perimeter)
```

Run: Class x

```
C:\Users\anusr\PycharmProjects\pythonProject\venv\Scripts\python.exe C:\Users\anusr\PycharmProjects
Area = 15
Perimeter = 16

Process finished with exit code 0
```




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TASKS.py x Class.py x

```
316 class Vehicle:
317     def __init__(self, make, mode, year):
318         self.make=make
319         self.mode=mode
320         self.year=year
321     def description(self):
322         return f' {self.make} {self.mode} {self.year}'
323
324 class Car(Vehicle):
325     def description(self):
326         return f'Description of Car: {self.make} {self.mode} {self.year}'
327
328 class Motorcycle(Vehicle):
329     def description(self):
330         return f'Description of Motorcycle: {self.make} {self.mode} {self.year}'
331
332 A=Car("Ford", "F001", 2008)
333 B=Motorcycle("Yamaha", "Y1001", 2018)
334 print(A.description())
335 print(B.description())
336
```

Run: Class x

```
C:\Users\anusr\PycharmProjects\pythonProject\venv\Scripts\python.exe C:\Users\anusr\Pycha
Description of Car: Ford F001 2008
Description of Motorcycle: Yamaha Y1001 2018

Process finished with exit code 0
```