

PC File Edit View Navigate Code Refactor Run Tools VCS Window Help sisdb - student.py

sisdb > models > student.py

Project

- sisdb C:\Users\Abhishek\OneDrive - Madan Mohan Malaviya University of Technology\Desktop\00Ps Python Assignment\sisdb
- db_connector
- db_adapter.py
- Exception
- models
 - course.py
 - enrollment.py
 - payment.py
 - SIS.py
 - student.py
 - teacher.py
- pythonpytest
- main.py
- sisdb_output.pdf
- External Libraries
- Scratches and Consoles

db_adapter.py x student.py x

```
91 s.EnrollInCourse(math_course)
92 ...
93
94
95 def UpdateStudentInfo(self, firstName, lastName, dateOfBirth, email, phoneNumber):
96     self.FirstName = firstName
97     self.LastName = lastName
98     self.DateOfBirth = dateOfBirth
99     self.Email = email
100    self.PhoneNumber = phoneNumber
101    print("Student information updated successfully.")
102
103
104 s= Student(StudentID=12, FirstName="Abhishek", LastName="Kanoujia", DateOfBirth=datetime(2001, 6, 7),
105           Email="abhishekk@gmail.com", PhoneNumber="7894561230")
106 s.UpdateStudentInfo("Abhishek", "Kanoujia", (2001, 6, 7), "abhishekk@gmail.com", "7894561230")
107
108
```

Run: student x

C:\pythan310\python.exe "C:/Users/Abhishek/OneDrive - Madan Mohan Malaviya University of Technology/Desktop/00Ps Python Assignment/sisdb/models/student.py"

Student information updated successfully.

Process finished with exit code 0

Version Control Run TODO Problems Terminal Python Packages Python Console

Download pre-built shared indexes: Reduce the indexing time and CPU load with pre-built Python packages shared indexes // Always download // Download once // Don't show again // Configure... (47 minutes ago)

108:1 CRLF UTF-8 4 spaces Python 3.10

11:04 27-12-2023

PC File Edit View Navigate Code Refactor Run Tools VCS Window Help sisdb - student.py

sisdb > models > student.py

Project

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```
105         Email="abhishekk@gmail.com", PhoneNumber="7894561230")
106     s.UpdateStudentInfo("Abhishek", "Kanoujia", (2001, 6, 7), "abhishekk@gmail.com", "7894561230")
107     ...
108
109
110     def MakePayment(self, amount, paymentDate):
111         payment_record = {"Amount": amount, "PaymentDate": paymentDate}
112         self._payment_history.append(payment_record)
113         print(f"Payment of {amount} made on {paymentDate} recorded successfully.")
114
115     s = Student(StudentID=13, FirstName="Abhishek", LastName="Kanoujia", DateOfBirth=datetime(2001, 6, 7),
116                 Email="abhishekk@gmail.com", PhoneNumber="7894561230")
117     s.MakePayment(50, "12-12-2023")
118
119
120
121     # def DisplayStudentInfo(self):
122     #     print(f"Student ID: {self.StudentID}")
```

Run: student

C:\pythan310\python.exe "C:/Users/Abhishek/OneDrive - Madan Mohan Malaviya University of Technology/Desktop/00Ps Python Assignment/sisdb/models/student.py"

Payment of 50 made on 12-12-2023 recorded successfully.

Process finished with exit code 0

Version Control Run TODO Problems Debug Terminal Python Packages Python Console

Download pre-built shared indexes: Reduce the indexing time and CPU load with pre-built Python packages shared indexes // Always download // Download once // Don't show again // Configure... (today 10:16)

112:53 CRLF UTF-8 4 spaces Python 3.10

11:32 27-12-2023

PC File Edit View Navigate Code Refactor Run Tools VCS Window Help sisdb - student.py

sisdb > models > student.py

Project

- sisdb C:\Users\Abhishek\OneDrive - Madan Mohan Malaviya University of Technology\Desktop\00Ps Python Assignment\sisdb\models\student.py
 - db_connector
 - db_adapter.py
 - Exception
 - models
 - course.py
 - enrollment.py
 - payment.py
 - SIS.py
 - student.py
 - teacher.py
 - pythonpytest
 - main.py
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```
115 s = Student(StudentID=13, FirstName="Abhishek", LastName="Kanoujia", DateOfBirth=datetime(2001, 6, 7),
116             Email="abhishekk@gmail.com", PhoneNumber="7894561230")
117 s.MakePayment(50, "12-12-2023")
118 ...
119
120
121 def DisplayStudentInfo(self):
122     print(f"Student ID: {self.StudentID}")
123     print(f"Name: {self.FirstName} {self.LastName}")
124     print(f"Date of Birth: {self.DateOfBirth}")
125     print(f"Email: {self.Email}")
126     print(f"Phone Number: {self.PhoneNumber}")
127
128
129
130 s = Student(StudentID=13, FirstName="Abhishek", LastName="Kanoujia", DateOfBirth=datetime(2001, 6, 7),
131             Email="abhishekk@gmail.com", PhoneNumber="7894561230")
132 s.DisplayStudentInfo()
```

Student > DisplayStudentInfo()

Run: student x

C:\pythan310\python.exe "C:/Users/Abhishek/OneDrive - Madan Mohan Malaviya University of Technology/Desktop/00Ps Python Assignment/sisdb/models/student.py"

Student ID: 13
Name: Abhishek Kanoujia
Date of Birth: 2001-06-07 00:00:00
Email: abhishekk@gmail.com
Phone Number: 7894561230

Process finished with exit code 0

Version Control Run TODO Problems Debug Terminal Python Packages Python Console

Download pre-built shared indexes: Reduce the indexing time and CPU load with pre-built Python packages shared indexes // Always download // Download once // Don't show again // Configure... (today 10:16)

124:52 CRLF UTF-8 4 spaces Python 3.10

11:35 27-12-2023

PC File Edit View Navigate Code Refactor Run Tools VCS Window Help sisdb - student.py

sisdb > models > student.py

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- Scratches and Consoles

```
130 ...
131
132 def GetEnrolledCourses(self):
133     return self._enrolled_courses
134 ...
135 s = Student(StudentID=12, FirstName="Abhishek", LastName="Kanoujia", DateOfBirth=datetime(2001, 6, 7),
136             Email="abhishekk@gmail.com", PhoneNumber="7894561230")
137 math_course = Course(101, "Python", "PYTHON1", "Mr. swami")
138
139 s.EnrollInCourse(math_course)
140 s.GetEnrolledCourses()
141 ...
142
143
144 def GetPaymentHistory(self):
145     return self._payment_history
146
147 s = Student(StudentID=12, FirstName="Abhishek", LastName="Kanoujia", DateOfBirth=datetime(2001, 6, 7),
Student > GetPaymentHistory()
```

Run: student

C:\pythan310\python.exe "C:/Users/Abhishek/OneDrive - Madan Mohan Malaviya University of Technology/Desktop/00Ps Python Assignment/sisdb/models/student.py"

Payment of 50 made on 12-12-2023 recorded successfully.

Process finished with exit code 0

Version Control Run TODO Problems Debug Terminal Python Packages Python Console

PEP 8: E303 too many blank lines (2)

144:33 CRLF UTF-8 4 spaces Python 3.10

14:25 27-12-2023

File Edit View Navigate Code Refactor Run Tools VCS Window Help sisdb - course.py

sisdb > models > course.py

Project

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```
41 def CourseCode(self, new_CourseCode):
42     if isinstance(new_CourseCode, str) and new_CourseCode:
43         self._CourseCode = new_CourseCode
44     else:
45         raise ValueError("Course code must be a non-empty string.")
46
47 @property
48 def InstructorName(self):
49     return self._InstructorName
50
51 @InstructorName.setter
52 def InstructorName(self, new_InstructorName):
53     if isinstance(new_InstructorName, str) and new_InstructorName:
54         self._InstructorName = new_InstructorName
55     else:
56         raise ValueError("Instructor name must be a non-empty string.")
57
58 def AssignTeacher(self, teacher):
```

Run: course

C:\pythan310\python.exe "C:/Users/Abhishek/OneDrive - Madan Mohan Malaviya University of Technology/Desktop/00Ps Python Assignment/sisdb/models/course.py"

Teacher Karthika Thangiraj assigned to the course Python.

Process finished with exit code 0

Version Control Run TODO Problems Debug Terminal Python Packages Python Console

Download pre-built shared indexes: Reduce the indexing time and CPU load with pre-built Python packages shared indexes // Always download // Download once // Don't show again // Configure... (today 10:16)

51:27 CRLF UTF-8 4 spaces Python 3.10

Search

14:28 27-12-2023

PC File Edit View Navigate Code Refactor Run Tools VCS Window Help sisdb - course.py

sisdb > models > course.py

Project

- sisdb C:\Users\Abhishek\OneDrive - Madan Mohan Malaviya University of Technology\Desktop\00Ps Python Assignment\sisdb
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course.py

```
61 ...
62 python_teacher = Teacher(1, "Karthika", "Thangiraj", "karthikamca@gmail.com")
63
64 python_course = Course(101, "Python", 202, "karthika")
65
66 python_course.AssignTeacher(python_teacher)
67 ...
68
69 def UpdateCourseInfo(self, courseid, courseName, courseCode, instructor):
70     self.CourseID = courseid
71     self.CourseName = courseName
72     self.CourseCode = courseCode
73     self.InstructorName = instructor
74     print("Course information updated successfully.")
75
76
77 python_course = Course(101, "Python", "202", "karthika")
78
```

Run: course

C:\pythan310\python.exe "C:/Users/Abhishek/OneDrive - Madan Mohan Malaviya University of Technology/Desktop/00Ps Python Assignment/sisdb/models/course.py"

Course information updated successfully.

Process finished with exit code 0

Version Control Run TODO Problems Debug Terminal Python Packages Python Console Event Log

Download pre-built shared indexes: Reduce the indexing time and CPU load with pre-built Python packages shared indexes // Always download // Download once // Don't show again // Configure... (today 10:16)

75:1 CRLF UTF-8 4 spaces Python 3.10

14:30 27-12-2023

PC File Edit View Navigate Code Refactor Run Tools VCS Window Help sisdb - course.py

sisdb > models > course.py

Project

- sisdb C:\Users\Abhishek\OneDrive - Madan Mohan Malaviya University of Technology\Desktop\00Ps Python Assignment\sisdb
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 - teacher.py
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- main.py
- sisdb_output.pdf

External Libraries

Scratches and Consoles

```
76 ...
77 python_course = Course(101, "Python", "202", "karthika")
78
79 python_course.UpdateCourseInfo(101, "Java", "102", "Prof. sharma")
80 ...
81
82
83 def DisplayCourseInfo(self):
84     print(f"Course ID: {self.CourseID}")
85     print(f"Course Code: {self.CourseCode}")
86     print(f"Course Name: {self.CourseName}")
87     print(f"Instructor: {self.InstructorName}")
88
89 python_course = Course(105, "Python", "305", "Mr. swami")
90 python_course.DisplayCourseInfo()
91
92 #
93 # def GetEnrollments(self):
```

Run: course

```
C:\python310\python.exe "C:/Users/Abhishek/OneDrive - Madan Mohan Malaviya University of Technology/Desktop/00Ps Python Assignment/sisdb/models/course.py"
Course ID: 105
Course Code: 305
Course Name: Python
Instructor: Mr. swami

Process finished with exit code 0
```

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Download pre-built shared indexes: Reduce the indexing time and CPU load with pre-built Python packages shared indexes // Always download // Download once // Don't show again // Configure... (today 10:16)

86:49 CRLF UTF-8 4 spaces Python 3.10

14:34 27-12-2023

PC File Edit View Navigate Code Refactor Run Tools VCS Window Help sisdb - course.py

sisdb > models > course.py

Project

- sisdb C:\Users\Abhishek\OneDrive - Madan Mohan Malaviya University of Technology\Desktop\00Ps Python Assignment\sisdb
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External Libraries

Scratches and Consoles

```
100
101 python_course = Course(105, "Python", "305", "Mr. swami")
102 student_1.EnrollInCourse(python_course)
103 student_2.EnrollInCourse(python_course)
104
105 enrollments = python_course.GetEnrollments()
106
107 print("Student Enrollments:")
108 for enrollment in enrollments:
109     print(f"- Student ID: {enrollment.StudentID}, Student Name: {enrollment.FirstName} {enrollment.LastName}")
110
111
112 #
113 #     def GetTeacher(self):
114 #         return self._assigned_teacher
115 #
116 # python_teacher = Teacher(1, "Karthika", "Thangiraj", "karthikamca@gmail.com")
117 #
```

Run: course

C:\pythan310\python.exe "C:/Users/Abhishek/OneDrive - Madan Mohan Malaviya University of Technology/Desktop/00Ps Python Assignment/sisdb/models/course.py"

Student Abhishek kanoujia enrolled in Python.

Student Ram kumar enrolled in Python.

Student Enrollments:|

Process finished with exit code 0

Version Control Run TODO Problems Debug Terminal Python Packages Python Console Event Log

Download pre-built shared indexes: Reduce the indexing time and CPU load with pre-built Python packages shared indexes // Always download // Download once // Don't show again // Configure... (today 10:16)

4:21 CRLF UTF-8 4 spaces Python 3.10

14:40 27-12-2023

PC File Edit View Navigate Code Refactor Run Tools VCS Window Help sisdb - course.py

sisdb > models > course.py

Project

- sisdb C:\Users\Abhishek\OneDrive - Madan Mohan Malaviya University of Technology\Desktop\00Ps Python Assignment\sisdb
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 - student.py
 - teacher.py
- pythonpytest
- main.py
- sisdb_output.pdf
- External Libraries
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```
106 print("Student Enrollments:")
107 for enrollment in enrollments:
108     print(f"- Student ID: {enrollment.StudentID}, Student Name: {enrollment.FirstName} {enrollment.LastName}")
109     ...
110
111
112 def GetTeacher(self):
113     return self._assigned_teacher
114
115 python_teacher = Teacher(1, "Mr.", "Swami", "Swami@gmail.com")
116
117 python_course = Course(105, "Python", 305, "Mr. swami")
118 python_course.AssignTeacher(python_teacher)
119
120 assigned_teacher = python_course.GetTeacher()
121
122 # @property
123 # def Enrollments(self):
```

Run: course

```
C:\pythan310\python.exe "C:/Users/Abhishek/OneDrive - Madan Mohan Malaviya University of Technology/Desktop/00Ps Python Assignment/sisdb/models/course.py"
Teacher Mr. Swami assigned to the course Python.

Process finished with exit code 0
```

Version Control Run TODO Problems Debug Terminal Python Packages Python Console Event Log

Download pre-built shared indexes: Reduce the indexing time and CPU load with pre-built Python packages shared indexes // Always download // Download once // Don't show again // Configure... (today 10:16)

118:44 CRLF UTF-8 4 spaces Python 3.10

14:43 27-12-2023

PC File Edit View Navigate Code Refactor Run Tools VCS Window Help sisdb - enrollment.py

sisdb > models > enrollment.py

Project

- sisdb C:\Users\Abhishek\OneDrive - Madan Mohan Malaviya University of Technology\Desktop\00Ps Python Assignment\sisdb\models\enrollment.py
 - db_connector
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 - Exception
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 - teacher.py
 - pythonpytest
 - main.py
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- External Libraries
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course.py x enrollment.py x

```
13     return self._EnrollmentID
14
15     @EnrollmentID.setter
16     def EnrollmentID(self, new_EnrollmentID):
17         if isinstance(new_EnrollmentID, int) and new_EnrollmentID > 0:
18             self._EnrollmentID = new_EnrollmentID
19         else:
20             raise ValueError("Enrollment ID must be a positive integer.")
21
22     @property
23     def StudentID(self):
24         return self._StudentID
25
26     @StudentID.setter
27     def StudentID(self, new_StudentID):
28         if isinstance(new_StudentID, int) and new_StudentID > 0:
29             self._StudentID = new_StudentID
30     else:
```

Enrollment > EnrollmentID() > else

Run: enrollment x

```
C:\pythan310\python.exe "C:/Users/Abhishek/OneDrive - Madan Mohan Malaviya University of Technology/Desktop/00Ps Python Assignment/sisdb/models/enrollment.py"
Student Abhishek kanoujia enrolled in Python.
Student Ram kumar enrolled in Python.
Enrolled Students:

Process finished with exit code 0
```

Version Control Run TODO Problems Debug Terminal Python Packages Python Console

Download pre-built shared indexes: Reduce the indexing time and CPU load with pre-built Python packages shared indexes // Always download // Download once // Don't show again // Configure... (today 10:16)

19:14 CRLF UTF-8 4 spaces Python 3.10

14:49 27-12-2023

PC File Edit View Navigate Code Refactor Run Tools VCS Window Help sisdb - teacher.py

sisdb > models > teacher.py

Project

- sisdb C:\Users\Abhishek\OneDrive - Madan Mohan Malaviya University of Technology\Desktop\00Ps Python Assignment\sisdb\models\teacher.py
 - db_connector
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 - enrollment.py
 - payment.py
 - SIS.py
 - student.py
 - teacher.py
 - pythonpytest
 - main.py
 - sisdb_output.pdf
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```
47 def Email(self, new_Email):
48     if isinstance(new_Email, str) and "@" in new_Email:
49         self._Email = new_Email
50     else:
51         raise ValueError("Invalid email format.")
52
53 def UpdateTeacherInfo(self, teacherID, firstName, lastName, email):
54     self.TeacherID = teacherID
55     self.FirstName = firstName
56     self.LastName = lastName
57     self.Email = email
58     print("Teacher information updated successfully.")
59
60 teacher_info = Teacher(101, "Mr", "Swami", "swami@gmail.com")
61 teacher_info.UpdateTeacherInfo(101, "ms Menu", "Mam", "menu@gmail.com")
62
63
64 # def DisplayTeacherInfo(self):
Teacher > UpdateTeacherInfo()
```

Run: teacher

C:\pythan310\python.exe "C:/Users/Abhishek/OneDrive - Madan Mohan Malaviya University of Technology/Desktop/00Ps Python Assignment/sisdb/models/teacher.py"

Teacher information updated successfully.

Process finished with exit code 0

Version Control Run TODO Problems Debug Terminal Python Packages Python Console

Download pre-built shared indexes: Reduce the indexing time and CPU load with pre-built Python packages shared indexes // Always download // Download once // Don't show again // Configure... (today 10:16)

53:72 CRLF UTF-8 4 spaces Python 3.10

14:54 27-12-2023

File Edit View Navigate Code Refactor Run Tools VCS Window Help sisdb - teacher.py

sisdb > models > teacher.py

Project

- sisdb C:\Users\Abhishek\OneDrive - Madan Mohan Malaviya University of Technology\Desktop\00Ps Python Assignment\sisdb\models\teacher.py
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teacher.py

```
56         self.LastName = lastName
57         self.Email = email
58         print("Teacher information updated successfully.")
59         ...
60     teacher_info = Teacher(101, "Mr", "Swami", "swami@gmail.com")
61     teacher_info.UpdateTeacherInfo(101, "ms Menu", "Mam", "menu@gmail.com")
62     ...
63
64     def DisplayTeacherInfo(self):
65         print(f"Teacher ID: {self.TeacherID}")
66         print(f"First Name Code: {self.FirstName}")
67         print(f>Last Name: {self.LastName}")
68         print(f>Email : {self.Email}")
69
70
71     teacher = Teacher(101, "Abhishek", "kanoujia", "abhishekk@gmail.com")
72     teacher.DisplayTeacherInfo()
73
```

Run: teacher

```
C:\pythan310\python.exe "C:/Users/Abhishek/OneDrive - Madan Mohan Malaviya University of Technology/Desktop/00Ps Python Assignment/sisdb/models/teacher.py"
Teacher ID: 101
First Name Code: Abhishek
Last Name: kanoujia
Email : abhishekk@gmail.com

Process finished with exit code 0
```

Version Control Run TODO Problems Debug Terminal Python Packages Python Console

Download pre-built shared indexes: Reduce the indexing time and CPU load with pre-built Python packages shared indexes // Always download // Download once // Don't show again // Configure... (today 10:16)

55:35 CRLF UTF-8 4 spaces Python 3.10

14:55 27-12-2023

PC File Edit View Navigate Code Refactor Run Tools VCS Window Help sisdb - payment.py

sisdb > models > payment.py

Project

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- Scratches and Consoles

teacher.py x payment.py x

```
48 @PaymentDate.setter
49 def PaymentDate(self, new_PaymentDate):
50     if isinstance(new_PaymentDate, str) and len(new_PaymentDate) == 10:
51         self._PaymentDate = new_PaymentDate
52     else:
53         raise ValueError("Invalid payment date format.")
54
55 def GetStudent(self):
56     pass
57
58 def GetPaymentAmount(self):
59     return self.Amount
60
61 def GetPaymentDate(self):
62     return self.PaymentDate
63
64 payment = Payment(101, 1, Amount=50, PaymentDate="2023-12-12")
65
```

Run: payment x

C:\pythan310\python.exe "C:/Users/Abhishek/OneDrive - Madan Mohan Malaviya University of Technology/Desktop/00Ps Python Assignment/sisdb/models/payment.py"

Payment Amount: 50
Payment Date: 2023-12-12

Process finished with exit code 0

Version Control Run TODO Problems Debug Terminal Python Packages Python Console

Download pre-built shared indexes: Reduce the indexing time and CPU load with pre-built Python packages shared indexes // Always download // Download once // Don't show again // Configure... (today 10:16)

57:1 CRLF UTF-8 4 spaces Python 3.10

14:57 27-12-2023

File Edit View Navigate Code Refactor Run Tools VCS Window Help sisdb - SIS.py

sisdb > models > SIS.py

Project

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teacher.py payment.py SIS.py

```
54 student=Student(StudentID=1, FirstName="Abhishek", LastName="Kanoujia", DateOfBirth=datetime(2001, 6, 7),
55             Email="abhishekk@gmail.com", PhoneNumber="7894561230")
56 teacher =Teacher(101,"Mr.", "Swami", "swami@gmail.com")
57 python_course = Course(105, "Python", "305", "Mr. swami")
58
59 sis = SIS()
60 sis.EnrollStudentInCourse(student,python_course)
61 sis.AssignTeacherToCourse(teacher, python_course)
62 sis.RecordPayment(_201,1,8000,"2023-01-15")
63 sis.GenerateEnrollmentReport(python_course)
64 sis.GeneratePaymentReport(student)
65 sis.CalculateCourseStatistics(python_course)
66
67
```

Run: SIS

Student Abhishek kanoujia enrolled in Python.
Student Ram kumar enrolled in Python.
Enrolled Students:
Student Abhishek enrolled in Python.
Teacher Mr. assigned to Python.
Payment of 8000 recorded successfully.
Enrollment Report for Python:
- Abhishek Kanoujia

Process finished with exit code 1

Version Control Run TODO Problems Debug Terminal Python Packages Python Console Event Log

PEP 8: W391 blank line at end of file

66:1 CRLF UTF-8 4 spaces Python 3.10

15:00 27-12-2023

PC File Edit View Navigate Code Refactor Run Tools VCS Window Help sisdb - Exception.py

sisdb > Exception > Exception.py

Project

- sisdb C:\Users\Abhishek\OneDrive - Madan Mohan Malaviya Un
- db_connector
- db_adapter.py
- Exception
 - Exception.py
- models
- pythonpytest
- main.py
- sisdb_output.pdf

External Libraries

- Scratches and Consoles

teacher.py payment.py SIS.py Exception.py

```
1 #TASK 4
2 class DuplicateEnrollmentException(Exception):
3     def __init__(self, message="Student is already enrolled in the course"):
4         self.message = message
5         super().__init__(self.message)
6
7 class CourseNotFoundException(Exception):
8     def __init__(self, message="Course not found in the system"):
9         self.message = message
10        super().__init__(self.message)
11
12 class StudentNotFoundException(Exception):
13     def __init__(self, message="Student not found in the system"):
14         self.message = message
15         super().__init__(self.message)
16
17 class TeacherNotFoundException(Exception):
18     def __init__(self, message="Teacher not found in the system"):
19         self.message = message
20         super().__init__(self.message)
21
22 class PaymentValidationException(Exception):
23     def __init__(self, message="Payment validation failed"):
24         self.message = message
25         super().__init__(self.message)
26
27 class InvalidStudentDataException(Exception):
28     def __init__(self, message="Invalid student data"):
29         self.message = message
30         super().__init__(self.message)
31
32 class InvalidCourseDataException(Exception):
33     def __init__(self, message="Invalid course data"):
34         self.message = message
35         super().__init__(self.message)
36
37 class InvalidEnrollmentDataException(Exception):
38     def __init__(self, message="Invalid enrollment data"):
39         self.message = message
40         super().__init__(self.message)
41
42 class InvalidTeacherDataException(Exception):
43     def __init__(self, message="Invalid teacher data"):
44         self.message = message
```

Version Control Run TODO Problems Debug Terminal Python Packages Python Console

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