ITSS 3312 Project 3

Student Name: Shreya Parihar

Class and Section: ITSS 3312 002

**Example Output:**

**Welcome to Student and Course Management System!**

**This system will allow you to manage students and courses. Let's start with the number of students this system will have:**

**5**

**\*\*\*Welcome to Student and Course Management System\*\*\***

**Press '1' for Student Management System (SMS)**

**Press '2' for Course Management System (CMS)**

**Press '0' to exit**

**1**

**\*\*\*Welcome to SMS\*\*\***

**Press '1' to add a student**

**Press '2' to deactivate a student**

**Press '3' to display all students**

**Press '4' to search for a student by ID**

**Press '5' to assign job on campus**

**Press '6' to display all students with jobs on campus**

**Press '0' to exit SMS**

**1**

**\*\*\*Welcome to SMS\*\*\***

**Press '1' to add a student**

**Press '2' to deactivate a student**

**Press '3' to display all students**

**Press '4' to search for a student by ID**

**Press '5' to assign job on campus**

**Press '6' to display all students with jobs on campus**

**Press '0' to exit SMS**

**1**

**Enter first name:**

**Mary**

**Enter last name:**

**Cane**

**Enter level of the student:**

**Freshman**

**Mary Cane has been added as a Freshman with ID 9**

**\*\*\*Welcome to SMS\*\*\***

**Press '1' to add a student**

**Press '2' to deactivate a student**

**Press '3' to display all students**

**Press '4' to search for a student by ID**

**Press '5' to assign job on campus**

**Press '6' to display all students with jobs on campus**

**Press '0' to exit SMS**

**1**

**Enter first name:**

**Shreya**

**Enter last name:**

**Parihar**

**Enter level of the student:**

**Freshman**

**Shreya Parihar has been added as a Freshman with ID 7**

**\*\*\*Welcome to SMS\*\*\***

**Press '1' to add a student**

**Press '2' to deactivate a student**

**Press '3' to display all students**

**Press '4' to search for a student by ID**

**Press '5' to assign job on campus**

**Press '6' to display all students with jobs on campus**

**Press '0' to exit SMS**

**3**

**Shreya Parihar**

**ID: 7**

**Level: Freshman**

**Status: Active**

**\*\*\*Welcome to SMS\*\*\***

**Press '1' to add a student**

**Press '2' to deactivate a student**

**Press '3' to display all students**

**Press '4' to search for a student by ID**

**Press '5' to assign job on campus**

**Press '6' to display all students with jobs on campus**

**Press '0' to exit SMS**

**2**

**Enter the ID for the student you want to deactivate:**

**7**

**Shreya Parihar has been deactivated**

**\*\*\*Welcome to SMS\*\*\***

**Press '1' to add a student**

**Press '2' to deactivate a student**

**Press '3' to display all students**

**Press '4' to search for a student by ID**

**Press '5' to assign job on campus**

**Press '6' to display all students with jobs on campus**

**Press '0' to exit SMS**

**4**

**Enter the student ID: 7**

**Shreya Parihar**

**ID: 7**

**Level: Freshman**

**Status: Inactive**

**\*\*\*Welcome to SMS\*\*\***

**Press '1' to add a student**

**Press '2' to deactivate a student**

**Press '3' to display all students**

**Press '4' to search for a student by ID**

**Press '5' to assign job on campus**

**Press '6' to display all students with jobs on campus**

**Press '0' to exit SMS**

**5**

**Enter student ID: 7**

**Enter job: TA**

**Enter job type: Shreya Parihar has been assigned TA job**

**\*\*\*Welcome to SMS\*\*\***

**Press '1' to add a student**

**Press '2' to deactivate a student**

**Press '3' to display all students**

**Press '4' to search for a student by ID**

**Press '5' to assign job on campus**

**Press '6' to display all students with jobs on campus**

**Press '0' to exit SMS**

**6**

**Shreya Parihar**

**ID - 7**

**TA**

**\*\*\*Welcome to SMS\*\*\***

**Press '1' to add a student**

**Press '2' to deactivate a student**

**Press '3' to display all students**

**Press '4' to search for a student by ID**

**Press '5' to assign job on campus**

**Press '6' to display all students with jobs on campus**

**Press '0' to exit SMS**

**0**

**\*\*\*Welcome to Student and Course Management System\*\*\***

**Press '1' for Student Management System (SMS)**

**Press '2' for Course Management System (CMS)**

**Press '0' to exit**

**2**

**\*\*\*Welcome to CMS\*\*\***

**Press '1' to add a new course**

**Press '2' to assign student a new course**

**Press '3' to display students with their courses**

**Press '0' to exit CMS**

**1**

**Enter course ID:**

**3311**

**Enter course name:**

**Java 101**

**Confirmation: New course 3311 has been added**

**\*\*\*Welcome to CMS\*\*\***

**Press '1' to add a new course**

**Press '2' to assign student a new course**

**Press '3' to display students with their courses**

**Press '0' to exit CMS**

**2**

**Enter student ID:**

**7**

**Enter course ID:**

**3311**

**Confirmation: Shreya Parihar has been assigned course 3311**

**\*\*\*Welcome to CMS\*\*\***

**Press '1' to add a new course**

**Press '2' to assign student a new course**

**Press '3' to display students with their courses**

**Press '0' to exit CMS**

**3**

**Shreya Parihar**

**ID - 7**

**Courses: 3311**

**\*\*\*Welcome to CMS\*\*\***

**Press '1' to add a new course**

**Press '2' to assign student a new course**

**Press '3' to display students with their courses**

**Press '0' to exit CMS**

**0**

**\*\*\*Welcome to Student and Course Management System\*\*\***

**Press '1' for Student Management System (SMS)**

**Press '2' for Course Management System (CMS)**

**Press '0' to exit**

**0**

**Good Bye!!!**

**Research and Analysis:**

For starters, I found some errors with my Project 2 and decided to construct that work differently so that I could work better for Project 3. At first, I was not too intimidated by this project as it was a continuation from the previous one; however, once I started to do it I ran into some trouble and confusions. I debated using ‘else’ ‘if’ statements instead of the switch cases for the different option; however, I remained using the switch statements as it makes the project look cleaner. I also created 3 other new classes named stu\_job, which is for the student jobs on campus, course which is for CMS, and student for SMS. I have attached these files as well along with my main class which implements the code.

**Design:**

As I had decided to change up my entire design to make the project more easier for me to work with I decided to use the following design:

1. Classes
2. Variables
3. Arrays
4. Menu options
5. Gathering inputs
6. File creation, reading and writing

**Coding:** Attached to the project submission as a java file.

**Testing:**

To test this assignment, I had to the run the code carefully multiple times. I remember in the beginning the code would stay in a loop of the welcome statement until I changed and corrected it. After this I was able to start with the basic numbers and running the code again and again to make sure that I receive the correct output.