CODE:

class StudentManagementSystem:

def \_\_init\_\_(self):

self.students = {}

self.student\_id\_counter = 1

self.logged\_in\_student = None

def register\_student(self):

name = input("Enter student's name: ")

age = input("Enter student's age: ")

email = input("Enter student's email: ")

phone = input("Enter student's phone number: ")

dob = input("Enter student's date of birth (DD-MM-YYYY): ")

password = input("Set a password for this account: ")

self.students[self.student\_id\_counter] = {

'name': name,

'age': age,

'email': email,

'phone': phone,

'dob': dob,

'password': password

}

print(f"Student registered successfully with ID: {self.student\_id\_counter}")

self.student\_id\_counter += 1

def login\_student(self):

student\_id = int(input("Enter your student ID to log in: "))

password = input("Enter your password: ")

if student\_id in self.students and self.students[student\_id]['password'] == password:

self.logged\_in\_student = student\_id

print("Login successful!")

else:

print("Invalid student ID or password.")

def logout\_student(self):

if self.logged\_in\_student:

print(f"Student ID {self.logged\_in\_student} logged out.")

self.logged\_in\_student = None

else:

print("No student is currently logged in.")

def view\_student\_details(self):

if self.logged\_in\_student:

details = self.students[self.logged\_in\_student]

print(f"ID: {self.logged\_in\_student}, Name: {details['name']}, Age: {details['age']}, "

f"Email: {details['email']}, Phone: {details['phone']}, Date of Birth: {details['dob']}")

else:

print("Please log in first.")

def view\_all\_students(self):

if not self.students:

print("No students registered.")

else:

for student\_id, details in self.students.items():

print(f"ID: {student\_id}, Name: {details['name']}, Age: {details['age']}, "

f"Email: {details['email']}, Phone: {details['phone']}, Date of Birth: {details['dob']}")

def update\_student\_details(self):

if self.logged\_in\_student:

print("Leave fields blank to keep current values.")

name = input("Enter new name: ")

age = input("Enter new age: ")

email = input("Enter new email: ")

phone = input("Enter new phone number: ")

dob = input("Enter new date of birth (DD-MM-YYYY): ")

password = input("Enter new password (leave blank to keep current): ")

if name:

self.students[self.logged\_in\_student]['name'] = name

if age:

self.students[self.logged\_in\_student]['age'] = age

if email:

self.students[self.logged\_in\_student]['email'] = email

if phone:

self.students[self.logged\_in\_student]['phone'] = phone

if dob:

self.students[self.logged\_in\_student]['dob'] = dob

if password:

self.students[self.logged\_in\_student]['password'] = password

print("Student details updated successfully.")

else:

print("Please log in first.")

def delete\_student(self):

if self.logged\_in\_student:

confirm = input("Are you sure you want to delete your account? (yes/no): ").lower()

if confirm == "yes":

del self.students[self.logged\_in\_student]

print(f"Student ID {self.logged\_in\_student} has been deleted.")

self.logged\_in\_student = None

else:

print("Account deletion canceled.")

else:

print("Please log in first.")

def menu(self):

while True:

print("\nWelcome to Student Management System\n")

print("1. Register Student")

print("2. Login")

print("3. View Student Details")

print("4. Update Student Details")

print("5. View All Students")

print("6. Delete Account")

print("7. Logout")

print("8. Exit")

choice = input("Choose an option: ")

if choice == '1':

self.register\_student()

elif choice == '2':

self.login\_student()

elif choice == '3':

self.view\_student\_details()

elif choice == '4':

self.update\_student\_details()

elif choice == '5':

self.view\_all\_students()

elif choice == '6':

self.delete\_student()

elif choice == '7':

self.logout\_student()

elif choice == '8':

print("Exiting the system.")

break

else:

print("Invalid choice. Please try again.")

if \_\_name\_\_ == "\_\_main\_\_":

sms = StudentManagementSystem()

sms.menu()

OUTPUT:























