***LAB no 3***

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56614

***Course Management System using Python***

**Code:**

DSA = []

AI =[]

AL = []

DS = []

def menu():

condition = True

while condition:

print(" \*\* Course Registration System \*\*")

print("1) Enroll")

print("2) Drop")

print("3) Search")

print("4) View All")

print("5) Sort")

print("6) Exit")

choice = int(input("Enter a choice: "))

match choice:

case 1:

enroll()

case 2:

drop()

case 3:

search()

case 4:

view()

case 5:

sort()

case 6:

condition = False

print("Exiting the system.")

case \_:

print("Invalid ...................")

def course():

print("\*\* Courses Available \*\*")

print("1) DSA ")

print("2) AI")

print("3) AL")

print("4) DS")

def Sorting\_method():

print(" \* Sorting Menu \*")

print("1) Ascending")

print("2) Decending")

def enroll():

course();

choice = int(input("Enter a choice : "))

size = int(input("Enter number of student you want to enroll : "))

match choice:

case 1:

course\_list = DSA

case 2:

course\_list = AI

case 3:

course\_list = AL

case 4 :

course\_list = DS

for i in range(size):

S\_name = input("Enter name : ")

course\_list.append(S\_name)

def drop():

course();

choice = int(input("Enter a choice : "))

match choice:

case 1:

course\_list = DSA

case 2:

course\_list = AI

case 3:

course\_list = AL

case 4 :

course\_list = DS

S\_name = input("Enter name to remove : ")

if S\_name in course\_list:

course\_list.remove(S\_name)

else:

print("no student found")

def search():

print("\*\* Search for a Student \*\*")

S\_name = input("Enter the student's name to search: ")

found = False

if S\_name in DSA:

print("This student is studying DSA")

found = True

if S\_name in AI:

print("This student is studying AI")

found = True

if S\_name in AL:

print("This student is studying AL")

found = True

if S\_name in DS:

print("This student is studying DS")

found = True

if not found:

print("Student is not enrolled in any courses.")

def view():

course();

choice = int(input("Enter a choice : "))

match choice:

case 1:

course\_list = DSA

case 2:

course\_list = AI

case 3:

course\_list = AL

case 4 :

course\_list = DS

if course\_list:

print("\* Students \*")

for i in course\_list:

print(i)

else:

print("Nobody")

def sort():

course();

choice = int(input("Enter a choice : "))

match choice:

case 1:

course\_list = DSA

case 2:

course\_list = AI

case 3:

course\_list = AL

case 4 :

course\_list = DD

Sorting\_method()

choice = int(input("Enter a choice :"))

match choice:

case 1:

course\_list.sort()

print("Sorted in Ascending order:")

case 2:

course\_list.sort(reverse=True)

print("Sorted in Descending order:")

if course\_list:

for student in course\_list:

print(student)

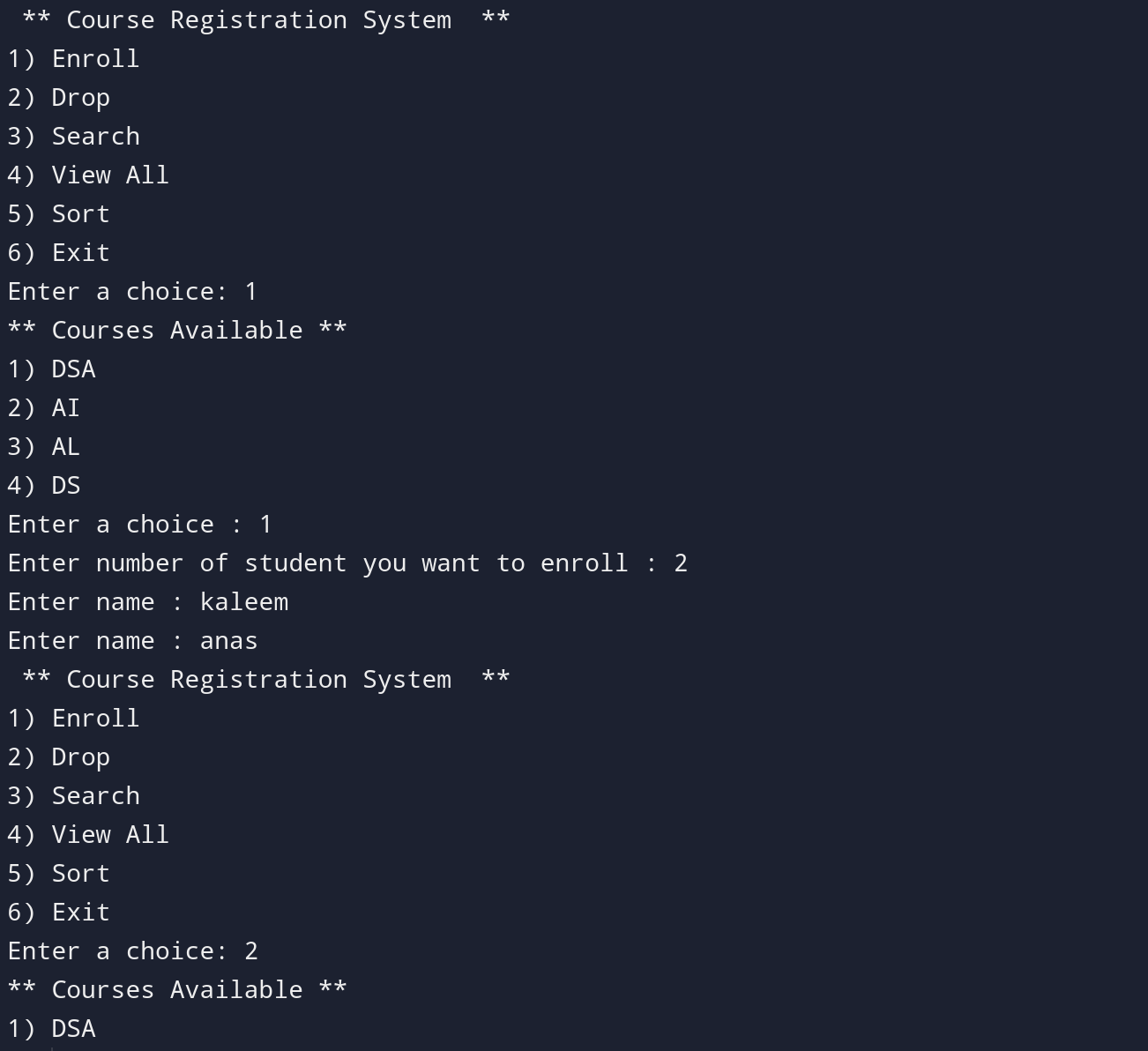
else:

print("No students to display.")

# Main

menu())

**Output:**

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