

23.08.24

HOME TASK

```
students={}
def add(students):
    ID=int(input("Enter the student ID : "))
    name=input("Enter the student name : ")
    grade=input("Enter the student grade : ")
    major=input("Enter the student major : ")
    students[ID]={"Name":name,"Grade":grade,"Major":major}
    print("Students details added successfully.")
```

```
def display(students):
    if len(students)!=0:
        print(students)
    else:
        print("Not found")
```

```
def remove(students):
    ID=int(input("Enter the student ID : "))
    if ID in students:
        students.pop(ID)
        print("Student ID is removed")
    else:
        print("Not found")
```

```
def update(students):
    ID=int(input("Enter the student ID : "))
    if ID in students:
        name=input("Enter the name to be updated : ")
        grade=input("Enter the grade to be updated : ")
        major=input("Enter the major to be updated : ")
        students[ID]["Name"]=name
        students[ID]["Grade"]=grade
        students[ID]["Major"]=major
        print("Updated successfully")
    else:
        print("Not found")
```

```
def search(students):
    ID=int(input("Enter the student ID : "))
    if ID in students:
        print(students[ID])
    else:
        print("Not found")

while True:
    print("1.Add \n2.Display \n3.Remove \n4.Update \n5.Search \n6.Exit")
    option=int(input("Enter the option : "))
    match option:
        case 1:
            add(students)
        case 2:
            display(students)
        case 3:
            remove(students)
        case 4:
            update(students)
        case 5:
            search(students)
        case 6:
            print("Goodbye")
        case _:
            print("Invalid option")
```

