a) Develop a python program that uses class Student which prompts the user to enter marks in three subjects and calculates total marks, percentage and displays the score card details. [Hint: Use list to store the marks in three subjects and total marks. Use \_init\_() method to initialize name, USN and the lists to store marks and total, Use getMarks() method to read marks into the list, and display() method to display the score card details.]

```
from functools import reduce
class Student:
def _init_(self, name, USN):
self.name = name
self.USN = USN
self.list = []
def getMarks(self) -> None:
print("Enter the marks of the student: ")
for i in range(0, 3):
self.list.append(int(input()))
def display(self):
max_marks = int(input("enter max marks"))
TotalMarks = reduce(lambda a, b: a + b, self.list)
percentage = (TotalMarks / max_marks) * 100
print("Name:", self.name)
print("USN", self.USN)
print("Marks: ", *self.list, sep="\n")
print("max marks", max_marks)
print("obtained marks", TotalMarks)
```

```
print("percentage obtained", percentage)
print("Enter the details of student 1")
name = input("Enter the name: ")
USN = input("Enter the usn: ")
s1 = Student(name, USN)
s1.getMarks()
print("\n")
s1.display()
OUTPUT-
Enter the details of student 1
Enter the name: Haadi
Enter the usn: 1ms22ii11
Enter the marks of the student:
89
90
91
enter max marks300
Name: Haadi
USN 1ms22ii11
Marks:
89
90
91
max marks 300
obtained marks 270
percentage obtained 90.0
```

b) Create a class called time. Its three members all type int should be called hours, minutes and seconds. Write a python program that prompts the user to enter a time values separately. The Program should then store the time in the object and finally printout the total no of seconds represented by this value. Use appropriate member functions.

```
class Time:
    def _init_(self, hours=0, minutes=0, seconds=0):
    self.hours = hours
    self.minutes = minutes
    self.seconds = seconds
    def to_seconds(self):
    return self.hours * 3600 + self.minutes * 60 + self.seconds
    time = Time(hours=int(input("Enter the hours: ")),
    minutes=int(input("Enter the minutes: ")),
    seconds=int(input("Enter the seconds: ")))
    print("Total seconds:", time.to_seconds())
```

## OUTPUT-

Enter the hours: 5

Enter the minutes: 10

Enter the seconds: 20

Total seconds: 18620