Exercise 1: Convert the previous marks-to-grade example (example-5) to read the grade letter and display the associated mark range.

```
Solution-1:
letter=input("Enter the letter grade: ")
if(letter== "A"):
print("Your range is 90 to 100")
elif(letter == "A-"):
print("Your range is 87 to 89")
elif(letter == "B+"):
print("Your range is 84 to 86")
elif(letter == "B"):
print("Your range is 80 to 83")
elif(letter == "B-"):
print("Your range is 77 to 79")
elif(letter == "C+"):
print("Your range is 74 to 76")
elif(letter == "C"):
print("Your range is 70 to 73")
elif(letter == "C-"):
print("Your range is 67 to 69")
elif(letter == "D+"):
print("Your range is 64 to 66")
elif(letter == "D"):
print("Your range is 60 to 63")
else: print("Your range is 0 to 59")
Solution-2:
mark = input("What is your mark? ")
mark = int (mark)
if (mark >= 90):
 Grade = "A"
elif (mark >= 87 and mark <= 89):
 Grade = "A-"
elif (mark >= 84 and mark <= 86):
 Grade = "B+"
elif (mark >= 80 and mark <= 83):
 Grade = "B"
```

```
elif (mark >= 77 and mark <= 79):
    Grade = "B-"
elif (mark >= 74 and mark <= 76):
    Grade = "C+"
elif (mark >= 70 and mark <= 73):
    Grade = "C"
elif (mark >= 67 and mark <= 69):
    Grade = "C-"
elif (mark >= 64 and mark <= 66):
    Grade = "D+"
elif (mark >= 60 and mark <= 63):
    Grade = "D"
else:
    Grade = "F"
print ("Your grade is : " + Grade)</pre>
```

Exercise 2: Modify the above example to display the Grade Point Average (GPA) based on the mark.

```
mark = input("What is your mark? ")
mark = int (mark)
if (mark >= 90 and mark <= 100):
 GPA = "4"
elif (mark >= 87 and mark <= 89):
 GPA = "3.7"
elif (mark >= 84 and mark <= 86):
 GPA = "3.3"
elif (mark >= 80 and mark <= 83):
 GPA = "3"
elif (mark >= 77 and mark <= 79):
 GPA = "2.7"
elif (mark >= 74 and mark <= 76):
 GPA = "2.3"
elif (mark >= 70 and mark <= 73):
 GPA = "2"
elif (mark >= 67 and mark <= 69):
 GPA = "1.7"
elif (mark >= 64 and mark <= 66):
```

```
GPA = "1.3"
elif (mark >= 60 and mark <= 63):
  GPA = "1"
else:
  GPA = "0"
print ("Your grade point is : " + GPA)
Exercise 3: Modify the above program to allow the student to enter the marks for 5 courses and
calculate the semester average and GPA.
Mark_1 = input("What is your first mark?
                                           ")
Mark 1 = int (Mark 1)
Mark 2 = input("What is your second mark? ")
Mark_2 = int (Mark_2)
Mark_3 = input("What is your third mark?
                                           ")
Mark 3 = int (Mark 3)
Mark 4 = input("What is your fourth mark? ")
Mark 4 = int (Mark 4)
Mark_5 = input("What is your fifth mark?
Mark_5 = int (Mark_5)
Average_mark = (Mark_1 + Mark_2 + Mark_3 + Mark_4 + Mark_5)/5
print("Your Average mark is: ", Average_mark)
if (Average mark >= 90 and Average mark <= 100):
  GPA = "4"
elif (Average_mark >= 87 and Average_mark <= 89):
  GPA = "3.7"
elif (Average_mark >= 84 and Average_mark <= 86):
  GPA = "3.3"
elif (Average mark >= 80 and Average mark <= 83):
  GPA = "3"
elif (Average_mark >= 77 and Average_mark <= 79):
  GPA = "2.7"
elif (Average_mark >= 74 and Average_mark <= 76):
```

GPA = "2.3"

```
elif (Average_mark >= 70 and Average_mark <= 73):
    GPA = "2"
elif (Average_mark >= 67 and Average_mark <= 69):
    GPA = "1.7"
elif (Average_mark >= 64 and Average_mark <= 66):
    GPA = "1.3"
elif (Average_mark >= 60 and Average_mark <= 63):
    GPA = "1"
else:
    GPA = "0"
print ("Your Average Grade Point is : " + GPA)</pre>
```