Conditional Functions Assignment

Question 1 : You have the following dataset:

Product	Sales
Product A	150
Product B	300
Product C	450

Write a formula to calculate the total sales of Product B and Product C only.

Formula :

=SUMIF(A:A,"Product B",B:B)+SUMIF(A:A,"Product C",B:B)

Output :

750

Question 2 : What formula would you use to count the number of cells that contain numeric values in the range ?

Formula :

=COUNT(A1:A10)

Question 3 : Using the data below, write a formula to find the average score of students who scored above 80:

Student	Score
Alice	85
Bob	75
Charlie	90

Formula :

=AVERAGEIF(B:B,">80")

Output :

90

Question 4 : How would you sort the following dataset first by "Department" (A-Z) and then by "Salary" (Largest to Smallest)?

Employee	Department	Salary
Alice	HR	5000
Bob	IT	8000
Charlie	HR	4500

Step 1 : Select the range
Step 2 : Go to Sort & Filter and then Custom Sort
Step 3 : First Sort by Department (A-Z) and then by Salary (Largest to Smallest)

And the **output** will be :

Employee	Department	Salary
Alice	HR	5000
Charlie	HR	4500
Bob	IT	8000

Question 5 : Using the dataset below, find the formula to calculate the second smallest value in the "Revenue" column:

Product	Revenue
Product A	1500
Product B	1200
Product C	1800

To find the second smallest value we will use the “SMALL’ function.

Formula :

=SMALL(B:B,2)

Output :

1500

Question 6 : What formula would you use to count the number of employees in the "Sales" department from the dataset below?

Employee	Department
Alice	IT
Bob	Sales
Charlie	Sales

Formula :

=COUNTIF(B:B,"Sales")

Output :

2

Question 7 : Write a formula to calculate the total sales only for items that sold more than 200 units:

Item	Units Sold
Item A	150
Item B	300
Item C	250

Formula :

=SUMIF(B:B,">200")

Output :

550

Question 8 : Using the dataset below, write a formula to find the maximum price of items that are marked as "Available":

Item	Price	Availability
Item A	200	Available
Item B	150	Unavailable
Item C	250	Available

Formula :

=MAXIFS(B:B,C:C,"Available")

Output :

250

Question 9 : Given the following data, what formula would you use to filter and count all employees earning above 5000 in
the "HR" department?

Employee	Department	Salary
Alice	HR	4000
Bob	HR	5500
Charlie	IT	6000

Formula :

=COUNTIFS(C:C,">5000",B:B,"HR")

Output :

1

Question 10 : Using the data below, write a formula to calculate the average sales of items priced above 100 but less than
300:

Item	Price	Sales
Item A	90	1000
Item B	150	1200
Item C	250	1500

Formula :

=AVERAGEIFS(C:C,B:B,">100",B:B,"<=300")

Output :

1350