**Day – 49 of the #101 days of coding challenge-------------------**

**Problem:-** Complete the *timeConversion* function in the editor below. It should return a new string representing the input time in 24 hour format.

timeConversion has the following parameter(s):

* *string s*: a time in  hour format

**onstraints**

* All input times are valid

**Sample Input**

07:05:45PM

**Sample Output**

19:05:45

Code:-

string timeConversion(string s) {

int n = s.length();

// Check if the time is in PM and convert hours accordingly

if (s[n - 2] == 'P' && s[n - 1] == 'M') {

// Extract hours, minutes, and seconds from the input string

int hours = stoi(s.substr(0, 2));

int minutes = stoi(s.substr(3, 2));

int seconds = stoi(s.substr(6, 2));

// Convert hours to 24-hour format if it's not 12 PM

if (hours != 12) {

hours += 12;

}

// Construct the 24-hour formatted string

return to\_string(hours) + s.substr(2, 6);

}

// Check if the time is in AM and convert hours accordingly

else if (s[n - 2] == 'A' && s[n - 1] == 'M') {

// Extract hours, minutes, and seconds from the input string

int hours = stoi(s.substr(0, 2));

// Convert 12 AM to 00 AM

if (hours == 12) {

hours = 0;

}

// Construct the 24-hour formatted string

return (hours < 10 ? "0" : "") + to\_string(hours) + s.substr(2, 6);

}

// Invalid input format

else {

return "Invalid input format";

}

}

Output:-

