KUB23ECE005-Diwali Contest STUDENT REPORT Roll Number ARUN KUMAR KUB23ECE005 DIWALL CONTEST Source Code: Description Max is planning to take part in a Diwali contest at a Diwali def max\_problems\_solved(N, P): Party that will begin at 8 PM and will run until midnight (12 AM) i.e., for 4 hours. He also needs to travel to the party remaining\_time = 240 - P venue within this time which takes him P minutes. The contest comprises of N problems that are arranged in  $time\_spent = 0$ order of difficulty, with problem 1 being the simplest and count = 0 problem N being the most difficult. Max is aware that he will require 5\*i minutes to solve the i<sup>th</sup> problem. for i in range(1, N + 1): Your task is help Max find and return an integer value, representing the number of problems Max can solve and reach  $time_to_solve = 5 * i$ the party venue within the given time frame of 4 hours. Note: Max will leave his home at exactly 8 PM to reach the if time\_spent + time\_to\_solve > remaining\_tim party venue. e: break **Input Format:** input1: An integer value N, representing the total number time\_spent += time\_to\_solve of problems. count += 1 input2: An integer value P, Representing the time to travel return count

in minutes from his home to the party venue.

**Example:** 

Input:

180

**Output:** 

**Explanation:** 

The amount of time left to solve the problems is 4\*60-180=60 mins.

1st Problem - 5 mins, Time left = 60-5=55 mins

2nd Problem - 10 mins, Time left = 55-10=45 mins

3rd Problem - 15 mins, Time left = 45-15=30 mins

4th Problem - 20 mins, Time left = 30-20=10 mins

5th Problem - 25 mins

So he can solve only 4 problems as he is not left with 25 mins to complete 5th problem.

RESULT

5 / 5 Test Cases Passed | 100 %

N=int(input()) P=int(input()) result=max\_problems\_solved(N,P) print(result)