Assignment No : 4

Program 1: Write a Program to take all three sides of a triangle from the user and check whether the triangle satisfies the Pythagorean Theorem.

Input:

Side 1 = 3

Side 2 = 4

Hypotenuse = 5

Output: Triangle Satisfies the Pythagorean Theorem.

Program 2: Write a Program to calculate Simple Interest. Taking all essential terms to compute as input.

Program 3: Write a Program to check if a year is leap year or not.

{Note: If a year is divisible by 4 then it is leap year but if the year is century

year like 2000, 1900, 2100 then it must be divisible by 400}

Program 4: Write a Program to Print following Pattern

1 2 3 4

5 6 7 8

9 10 11 12

13 14 15 16

Program 5: Write a Program to take marks of five subjects Physics, Chemistry,

Biology, Mathematics and Computer. Calculate percentage and grade

according to following:

Percentage >= 90% : Grade A

Percentage >= 80% : Grade B

Percentage >= 70% : Grade C

Percentage >= 60% : Grade D

Percentage >= 40% : Grade E

Percentage < 40% : Grade F