

Weekly Assignment 5

1. Write a Python program which reads three integers X, Y and Z and prints Y+Z if X is 0. If X is 1 then Y-Z is printed. If X is 2 then Y*Z is printed. If X is 3 then Y/Z is printed.
2. Write a Python program which reads a, b and c as sides of a triangle and prints whether angle A is 90° or not. [Hint: if ($a^2 = b^2 + c^2$)]
3. A student is awarded E grade if he gets more than 90 marks. He is awarded A grade if marks are between 80 and 89. Similarly range for B, C, D and P are 70-79, 60-69, 50-59, and 35-49 respectively. The student is awarded F grade if he gets less than 35 marks. Write a Python Program that reads marks of a student and prints his grade.
4. Write a Python program which reads a number X and prints a number Y. Y=X+10 if X is 6. Y is X*X if X is 7. Y is 2*X+4 if X is 12. Otherwise Y is X*6-1.
5. Write a Python program, which reads a, b, and c. Let $x^2 + y^2 + 2ax + 2by + c = 0$ be equation of a circle. Print its centre and radius. If Input 10, -6 and -2 then output is centre (-10,6) and radius 11.7.