

Write following programs in Python using If-Condition and Functions

- 1) Print largest and smallest values out of two.
- 2) Print largest and smallest values out of three.
- 3) Check whether a given number is odd or even.
- 4) Check whether a given number is divisible by 10 or not.
- 5) Accept age of a person. If age is less than 18, print minor otherwise Major.
- 6) Accept a number from the user. And print number of digits in it.
- 7) Accept a year value from the user. Check whether it is a leap year or not.
- 8) Check whether a triangle is valid or not, when the three angles of the triangle are entered through the keyboard. A triangle is valid if the sum of all the three angles is equal to 180 degrees.
- 9) Print absolute value of a given number.
- 10) Given the length and breadth of a rectangle, write a program to find whether the area of the rectangle is greater than its perimeter.
- 11) Given three points (x1,y1), (x2,y2) and (x3,y3), check if all the three points fall on one straight line.
- 12) Given the coordinates (x,y) of center of a circle and its radius, determine whether a point lies inside the circle, on the circle or outside the circle. (Hint: Use `sqrt()`, `pow()`)
- 13) Convert number 0 to 19 to its equivalent words. E.g. 0 → zero, 19 → nineteen.
- 14) Accept marks of three subjects. Print total and average along with whether a candidate has passed or fail. If student secures  $\leq 39$  marks in any subject, consider him as fail. Also assign a subject wise grade based on the following table:

Marks Range	Grade
Absent	NA
0 – 39	F
40 – 44	P
45 – 49	C
50 – 54	B
55 – 59	B+
60 – 69	A
70 – 79	A+
80 – 100	O