MCA – I Introduction to Python Programming

Practical Sheet – I.

1 Write a program to add, multiply and divide two integers and float numbers.

2 Write a program to check whether the entered number is even or odd.

3 Write a program to tell if a year is a leap year Or Not.

4 Write a program to determine the maximum of 3 numbers.

5 Write a program to accept number of days and print year, month and remaining days.

6 Write a program to swap the values of two variables.

7 Admission to a professional course is subject to the following conditions :

(a) marks in mathematics >= 60
(b) marks in physics >= 50
(c) marks in chemistry >= 40
(d) total in all three subjects >= 200
or
total in mathematics and physics >= 150
given the marks in the three subjects , write a program to process the applications to list an eligible candidate.

8 Write a program that reads the percentage obtained by the students and determines and prints the class obtained by the student as per the following rules

Percentage	Class
0 - 39	Fail
40 - 59	Second class
60 - 79	First class
80 - 100	Distinction

9 Write a program to calculate the average of a set of n given numbers.

10 Write a program to calculate the area of circle/rectangle/triangle.
C indicate circle ,
R indicate rectangle,
T indicate triangle.
use symbolic constant to define the value of pie.

11 Write a program that accept basic, HRA, and DA from the user and calculate total salary.

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12 Generate the following pattern:

1.

```
* * * * *
* * * * *
* * * * *
* * * * *
* * * * *
```

2.

```
*
* *
* * *
* * * *
* * * * *
```

3.

```
* * * * *
* * * *
* * *
* *
*
```

4.

```
* * * * *
*       *
*       *
*       *
* * * * *
```

5.

```
* * * * *
  * * * *
    * * *
      * *
        *
```

6

```
5
54
543
5432
54321
```

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	7	1 22 333 4444 55555
	8	 1 12 123 1234 12345
	9	1 232 34543 4567654 567898765 67890109876 7890123210987 890123454321098 90123456765432109
	10	12345 1234 123 12 1