**Write a PYTHON programming using if, if…else and elif statements:**

**1. A company decided to give bonus of 5% to employee if his/her year of service is more than 5 years. Ask user for their salary and year of service and print the net bonus amount.**

**2. Take values of length and breadth of a rectangle from user and check if it is square or not.**

**3. Take two int values from user and print greatest among them.**

**4. A shop will give discount of 10% if the cost of purchased quantity is more than 1000.**

**Ask user for quantity suppose, one unit will cost 100. Judge and print total cost for user.**

**5. A school has following rules for grading system:**

**a. Below 25 - F**

**b. 25 to 45 - E**

**c. 45 to 50 - D**

**d. 50 to 60 - C**

**e. 60 to 80 - B**

**f. Above 80 - A**

**Ask user to enter marks and print the corresponding grade.**

**6. Take input of age of 3 people by user and determine oldest and youngest among them.**

**7. Write a program to print absolute vlaue of a number entered by user. E.g.-**

**INPUT: 1 OUTPUT: 1**

**INPUT: -1 OUTPUT: 1**

**8. A student will not be allowed to sit in exam if his/her attendence is less than 75%.**

**Take following input from user**

**Number of classes held**

**Number of classes attended.**

**And print**

**percentage of class attended**

**Is student is allowed to sit in exam or not.**

**9. Traffic light:**

**Write a python program that will check for the following conditions:**

**If the light is green – Car is allowed to go**

**If the light is yellow – Car has to wait**

**If the light is red – Car has to stop**

**Write a PYTHON programming using if, if…else , elif and while statements:**

1. **Write a program to reverse an integer in Python.**
2. **Write a program in Python to check whether an integer is Armstrong number or not.**
3. **Write a program in Python to check given number is prime or not.**
4. **Write a program in Python to print the Fibonacci series using iterative method.**
5. **Write a program in Python to print the Fibonacci series using recursive method.**
6. **Write a program in Python to check whether a number is palindrome or not using iterative method.**
7. **Write a program in Python to check whether a number is palindrome or not using recursive method.**
8. **Write a program in Python to find greatest among three integers.**
9. **Write a program in Python to check if a number is binary?**
10. **Write a program in Python to find sum of digits of a number using recursion?**
11. **Write a program in Python to swap two numbers without using third variable?**
12. **Write a program in Python to swap two numbers using third variable?**
13. **Write a program in Python to find prime factors of a given integer.**
14. **Write a program in Python to add two integer without using arithmetic operator?**
15. **Write a program in Python to find given number is perfect or not?**
16. **Python Program to find the Average of numbers with explanations.**
17. **Python Program to calculate factorial using iterative method.**
18. **Python Program to calculate factorial using recursion.**
19. **Python Program to check a given number is even or odd.**
20. **Python program to print first n Prime Number with explanation.**
21. **Python Program to print Prime Number in a given range.**
22. **Python Program to find Smallest number among three.**
23. **Python program to calculate the power using the POW method.**
24. **Python Program to calculate the power without using POW function.(using for loop).**
25. **Python Program to calculate the power without using POW function.(using while loop).**
26. **Python Program to calculate the square of a given number.**
27. **Python Program to calculate the cube of a given number.**
28. **Python Program to calculate the square root of a given number.**
29. **Python program to calculate LCM of given two numbers.**
30. **Python Program to find GCD or HCF of two numbers.**
31. **Python Program to find GCD of two numbers using recursion.**
32. **Python Program to Convert Decimal Number into Binary.**
33. **Python Program to convert Decimal number to Octal number.**
34. **Python Program to check the given year is a leap year or not.**
35. **Python Program to convert Celsius to Fahrenheit.**
36. **Python Program to convert Fahrenheit to Celsius.**
37. **Python program to calculate Simple Interest with explanation.**