Experiment-2

1. WAP to find out whether a given number is prime or not.
2. WAP to print the Fibonacci series.
3. WAP to print the reverse of a number.
4. WAP to check whether a given number is palindrome or not.
5. WAP to check whether a given number is Armstrong number or not.
6. WAP to print the ASCII value of a given character.
7. WAP to swap the values of two variables without using third variable and any arithmetic operator.

Experiment-3

1. Write a program to implement a function that receives a positive floating point number and rounds it to two decimal places. For example 127.565031 rounds to 127.570000. Print the rounded number to six decimal places.
2. WAP to generate the random number from following set without using any conditional statement.
   1, 3, 9, 27, 81, 243, 729, 2187
3. WAP that reads a floating-point number and prints the ceiling, floor, and rounded value.
4. Prepare a payroll earnings statement for the sales force at the Arctic Ice Company. All of Arctic's employees are on a straight commission basis of 12.5 % of sales. Each month, they also receive a bonus that varies depending on the profit of the month and their length of service. The sales manager calculates the bonus separately and enters it with the salesperson's total sales for the month. Your program is also to calculate the withholding taxes and retirement for the month based on the following rates:
   a. Federal withholding: 25%
   b. State withholding: 10%
   c. Retirement plan: 8%
   d. The test data to use for the program are shown in following table.

SALESPERSON	SALES	BONUS
1	53500	425
2	41300	300
3	56800	350
4	36200	175

5. Write a program that asks the user to enter the current date and a person's birth date in the form month, day, year. The program then calculates the person's age in integral years. Use separate functions to enter the dates (pass by address), calculate the person's age, and print

the results. Test your program with the following dates: 11/14/1957, 5/10/1989, and 1/5/2000.