**Q1:** write a program to perform the following functionalities.

i)1 2 3 4 5 6 7 8 9

ii)1 4 9 16 25 36 49 64 81

iii) 1 8 27 64 125 216 373 512 729

iv) Welcome to cs lab.

1. For sequence (ii) find which element is odd and which is which is even
2. For sequence (iii) find which element is prime.
3. For( iv) To find the number of vowels and consonants in a sentence.

**Q2 :**

In a university there are 10 employees receiving different amount of salaries entered by user this program finds out average, max and min salary of the employee.

Find out sum of all salaries in the list of 10 employees and make all salaries 0 for next month.

**Q3:** Write a program to find the factors of a number and check whether it’s a perfect square or not if it perfect square then convert it into binary.