PROGRAMMING PROBLEM – SET 7

Question 1: - Write a program to calculate overtime pay of 10 employees. Overtime is paid at the rate of Rs. 12.00 per hour for every hour worked above 40 hours. Assume that employees do not work for fractional part of an hour.

Question 2: - Two numbers are entered through the keyboard. Write a program to find the value of one number raised to the power of another.

Question 3: - Write a program to print all the ASCII values and their equivalent. The ASCII values vary from 0 to 255.

Question 4: - Write a program to print out all Armstrong numbers between 1 and 500. If sum of cubes of each digit of the number is equal to the number itself, then, the number is called an Armstrong number. For e.g. 153 = 1 * 1 * 1 + 5 * 5 * 5 + 3 * 3 * 3 = 1 + 125 + 27 = 153

Question 5: - Write a program for a matchstick game being played between the computer and a user. Your program should ensure that the computer the computer always wins. Rules for the game are as follows:

   i) There are 21 Matchsticks.

   ii) The computer asks the player to pick 1, 2, 3 or 4 matchsticks.

   iii) After the person picks, the computer does its picking.

   iv) Whoever is forced to pick up the last matchstick loses the game.

Question 6: - Write a program to enter the number till the user wants and at the end it should display the count of positive, negative and zeros entered.

Question 7: - Write a program to find octal equivalent of the entered number.

Question 8: - Write a program to find the range of set of numbers. Range is the difference between the smallest and biggest number in the list.