**INDIAN SCHOOL OF AL WADI AL KABIR**

**DEPARTMENT OF COMPUTER SCIENCE**

**CLASS :XI HOLIDAY WORKSHEET – P RACTICAL PROGRAMS**

Note : Coding for the following list of C++ programs need to be written on your Practical Note Book and submit the same after the summer holidays i.e.,on 09.08.15

1. Write a program to print your Name, Class with Section and School Name.
2. Write a program to read the Principal amount, rate of interest and no. of years as input and find the simple interest amount. (p \* r \* t / 100).
3. Write a program which accept temperature in Fahrenheit and print it in centigrade. C=5\*(F-32)/9
4. Write a program to input 2 numbers and swap them without using temporary variable.
5. Write a program to check a number is leap year or not.

Year will be either divisible by 400 or year is divisible by 4 but not divisible by 100.

1. Write a program to check whether the given number is positive or negative (using ? : ternary operator ).
2. Write a program to check whether the number is multiple of both 5 and 10 or not by using if..else statement.
3. In a company an employee is paid as under:

If his basic salary is less than Rs. 1500, then HRA = 10% of basic salary and DA = 90% of basic salary. If his salary is either equal to or above Rs. 1500, then HRA = Rs. 500 and DA = 98% of basic salary. If the employee's salary is input by the user write a program to find his gross salary.

1. Write a program to calculate the total expenses. Quantity and price per item are input by the user and discount of 10% is offered if the expense is more than 5000.
2. Write a program to calculate the monthly telephone bills as per the following rule:

Minimum Rs. 200 for upto 100 calls.

Plus Rs. 0.60 per call for next 50 calls.

Plus Rs. 0.50 per call for next 50 calls.

Plus Rs. 0.40 per call for any call beyond 200 calls.

1. Write a program to print number from 1 to 10.
2. Write a program to calculate the sum of first 10 natural number.
3. Write a C++ program to calculate and display the factorial of a number.
4. Write a program to calculate the sum of following series where n is input by user.

1 + 1/2 + 1/3 + 1/4 + 1/5 +…………1/n

1. Write a program to check a number is Armstrong or not. 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 example, 153 = ( 1 \* 1 \* 1 ) + ( 5 \* 5 \* 5 ) + ( 3 \* 3 \* 3 )