

## Class : XI

# Computer Science Project

### Program 1

Write a program to implement a class with a method named swappairs that accepts a String as a parameter and returns that String with each pair of adjacent letters reversed. If the String has an odd number of letters, the last letter is unchanged.

For example, the call swappairs("forget") should return "ofgrte" and the call swappairs("hello there") should return "ehll ohtree".

The class has method main() that accepts a String and calls swappairs() method to swap pairs of characters in the passed String.

### Program 2

The Potential of a word is found by adding the ASCII value of the alphabets.

Example: BALL

Potential= 66+75+76+76=283

Write a program to accept a sentence which may be terminated by either ".", "?", "!" Only. The words of sentence are separated by single space and are in UPPER CASE. Decode the words according to their potential and arrange them in ascending order of their potential strength.

Example 1:

Input: HOW DO YOU DO?

Output:

HOW=238

DO=147

YOU=253

DO=147

DO DO HOW YOU

Example 2:

Input: HOW ARE YOU #

Output:

INVALID OUTPUT

### Program 3

Roll number and marks of N number of students are stored in file 'student.dat'. Create another file 'New.dat' that contains data of only those students who have scored more than 80% marks.

#### **Program 4**

Create a class named Array to search for a item.

Class name. : Array

Member variables:

N[ ] : integer array

L : limit of the array

Functions. :

void accept(int m) : accepts the limit and declare the array.

void readelements() : inputs the elements of the array.

void search(int n) : searches n in the list of elements in the array. If found displays the position in the array otherwise prints an appropriate message.

void display() : prints the array elements.

#### **Program 5**

Design a program which inputs a date in six digit number format i.e 141296

Test the validity of date and print the date in full form. If date is invalid then print a message as 'Invalid date'.

Example 1:

Input: 141296

Output: 14th December 96

VALID DATE

Example 2 :

Input: 230488

Output: 23rd April 88

VALID DATE

Example 3:

Input: 300284

Output: INVALID DATE

#### **Program 6**

Write a program in Java to accept a decimal number (base 10). Convert the decimal number to a Hexa-Decimal number and display the result.

Example 1:

Input: 1998

Output: 7CE

Example 2:

Input: 2748

Output: ABC

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