**\_\_\_\_\_**

1. **Write a program that reads a set of integers and it will stop the reading when the input number is negative. The output should be the sum of these numbers Example:**

**Enter number : 2**

**Enter number : 4**

**Enter number : 5**

**Enter number : -4**

**The sum is = 11**

1. **Given a string s ,write statements to do the following:**

**String s = “ hello world this is java”;**

* 1. Print the first and last characters of s.
  2. Print the character before the last character.
  3. Replace the character at index 2 with the character at the last index.
  4. Delete the first and last characters of s and print it .
  5. Print the letter after the first character in s. i.e. in alphabetic order.

Hint: H is the first letter in s so you should print I;

**Write a complete program to test your code and show the output.**

1. **Perform the following tasks:**

* write this class in your program

class date {

Private int day; // Day of the Month

private int month; // Month of the yea

Private int year; // Year

}

* Write 2 functions that check the data being entered through the set () function.

**private functions :**

**Test\_Day :** function that **take** the day and verifies it to see if the day entered is valid (between 1- 31) .The function should return a **true** if the day is valid or a **false** if the day is invalid.

**Test\_month** **take** the month and verifies it to see if the month entered is between 1 and 12. The function should return a **true** if the data is valid, otherwise it should return a **false**.

**Public set()** function so that:

It will call all the 2 previous functions to test the given parameters it will return false (and not carry out the data setting all will be zeros 0) if at least one of these 2 new functions does not return a true .

HINT:

Set (day ,month, year){

If (Test\_Day and Test\_month )

Return **true** and set variables with given values

Else **return** false and set variables to 0}

Test the date class in another test class:

In main ask the user to enter a date

Call set function and depend on its answer print valid or not valid date

Run your program several times and test this dates

22/1/2012 – 44/5/2014 – 4/13/2014

Show the result each time.