Topic: String manipulation  Time Limit: 2 hours

Worksheet No.:2

[Copy the questions and solve them on a sheet of paper date wise. Keep the worksheets ready in a file to be submitted on the opening day.]

Concept:

Worksheet 2
Example 1:
Input a line of text and print all palindrome words.

class palin
{
    public static void main(String s)
    {
        s=s+" ";
        String t="",w="";
        char c=' ';
        int i,l=0;
l=s.length()-1;

        for(i=0;i<l;i++)
        {

c=s.charAt(i);
if(c!=' ')
{
    t=t+c; // adding each letter at the end of each word
    w=c+w; // adding each letter at the beginning of each word
}
else
{
    if(t.equals(w))
    {
        System.out.println(t);
    }
    // making both the words empty.
    t="";
    w="";
}
}
Input a line of text and print the longest word.

class program
{
    public static void main(String s)
    {
        s=s+" ";

        int i,l=0;
        String t="",w="";
        char c=' ';

        l=s.length()-1;

        for(i=0;i<=l;i++)
        {
            c=s.charAt(i);
            if(c!=' ')
            {
                t=t+c;
            }
            else
            {
                if(t.length()>w.length())
                {
                    w=t;
                }
                t="";
            }
        }

        System.out.println(w);
    }
}
Exercise
1) Input a word and print each letter along with their ascii value.

2) Input a line of text and print each word along with number of vowels.

3) Input a line of text and print first letter of each word.
   (hint: add space at the beginning of the word and inside the loop whenever there is a space print the next letter)

4) Input a line of text and print the last letter of each word.

5) Input a word in uppercase and change each letter to its corresponding next letter.
   (Hint: use ascii value of each letter and then change it to next letter by changing ascii value)

6) Input two words and print common letters