}
}

Question 9.

A class Cons Change has been defined with the following details : **[10]**

Class Name	:	***ConsChange***
Data members /instance variables:		
word	:	*stores the word*
len	:	*stores the length of the word*
Member functions/methods :		
ConsChange ()	:	*default constructor*
void readword ( )	:	*accepts the word in lowercase*
void shiftcons ( )	:	*shift all the consonants of the word at the beginning followed by the vowels (e.g. spoon becomes spnoo)*
void changeword ( )	:	*change the case of all occurring consonants of the shifted word to uppercase, for e.g. (spnoo becomes SPNoo)*
void show( )	:	*displays the original word, shifted word and the changed word*

Specify the class ***ConsChange*** *giving the details of the* ***constructor ( )***, ***void readword ( )***, ***void shiftcons ( )***, ***void changeword ( )*** *and* ***void show ( )***. *Define the main ( ) function to create an object and call the functions accordingly to enable the task.*

Answer 9.

```
import java.io.*;
class ConsChange
{
  String word;
  int len;
  public ConsChange()
  {
    word="ritesh_sahu";
    len=10;
  }
  void readword()throws IOException
  {
    BufferedReader br=new
BufferedReader(new
InputStreamReader(System.in));
System.out.println("Enter a word in
lower case");
    word=br.readLine();
    len=word.length();
  }
  void shiftcons()
  {
    String v="",c="";
    int i;
    char ch;
    for(i=0;i<len;i++)
    {
      ch=word.charAt(i);
      if(ch=='a' || ch=='e' || ch=='i' ||
ch=='o' || ch=='u')
      {
        v=v+ch;
      }
      else
      {
        c=c+ch;
      }
    }
    word=c+v;
    System.out.println(word);
  }
  void changeword()
  {
    int i;
    char ch;
    String s="";
    for(i=0;i<len;i++)
    {
      ch=word.charAt(i);
      if(ch!='a' && ch!='e' && ch!='i'
&& ch!='o' && ch!='u')
      {
        ch=(char)(ch-32);
      }
      s=s+ch;
    }
    word=s;
    System.out.println(word);
  }
  void show()
  {
    System.out.println(word);
    shiftcons();
    changeword();
  }
  public static void main(String
args[])throws IOException
  {
    ConsChange ob=new
ConsChange();
    ob.readword();
    ob.show();
  }
}
```