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Q5 Write a program to initialize the Seven Wonders of the World along with their locations in two different arrays. Search for a name of country input by the user. If found, display the name of the country along with its wonder, otherwise display "Sorry Not Found"

Seven wonders - CHICHEN ITZA, CHRIST THE REDEEMER, TAJ MAHAL, GREAT WALL OF CHINA, MACHUPICHU, PETRA, COLOSSEUM

Location - Mexico, Brazil, India, China, Peru, Jordan, Italy.

Example - Country name: India Output: India - Taj Mahal

Country name: USA Output: Sorry not found
[ICSE 2016]

```
import java.util.*;
class SevenWonders
```

```
{
    public static void main ( )
```

```
{
    String wonders [ ] = { "CHICHENITZA", "CHRIST
        THE REDEEMER", "TAJMAHAL",
        "GREAT WALL OF CHINA", "PETRA",
        "COLOSSEUM" };
```

```
String locations [ ] = { "MEXICO", "GOLD
    "BRAZIL", "INDIA", "CHINA", "PERU",
    "JORDAN", "ITALY" };
```

```
Scanner in = new Scanner (System.in);
String str
```

```
System.out.println ("Enter country");
str = in.nextLine ();
```

```
int i, l
for (i = 0; i <
l = str.length ();
```

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

```
{
    if (locat locations [i].equals (c))
```

```
{
        System.out.println (locations [i]
            + " - " + wonders [i]);
```

```
    }
```

```
    }
```

```
    System.out.println ("Sorry not found!");
```

```
}
```

Q6 Design a class to overload a function check() as follows

- i) void check(String str, char ch) to find and print the frequency of a character in a string
- ii) void check(String s1) to display one vowels from string s1, after converting it to lower case. [ICSE 2017]

class Overload

{

void check (String str, char ch)

{

int l, i, count

l = str.length(),

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

{

char ch1 = str.charAt(i);

if (ch1 == ch)

{

count++;

}

}

System.out.println ("Number of "+ ch + "
present is = " + count)

}

void check (String s1)

{

int l = s1.length(),

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

{

char c = Character.toLowerCase (s1.charAt(i));

```
if (c == 'a' || c == 'e' || c == 'i' || c == 'o' || c == 'u')
```

```
System.out.println(c + " ");
```

Q7. Write a program in Java to accept a string in lower case and change the first letter of every word to upper case. Display the new string. [ICSE 2018]

```
import java.util.*;
```

```
class Converter
```

```
{  
    public static void main()
```

```
{  
    Scanner in = new Scanner(System.in);
```

```
    String str, s1 = "";
```

```
    int i, l
```

```
    System.out.println("Enter a string");
```

```
    str = in.nextLine();
```

```
    s1 = s1 + (Character.toUpperCase(str.charAt(0)));
```

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

```
    {  
        if (str.charAt(i) == " ")
```

```
        {  
            s1 = s1 + str.charAt(i);
```

```
            s1 = s1 + str.charAt(i) + (Character.toUpperCase
```

```
                (str.charAt(i+1)));
```

```
        }  
        i++;
```

```
    }  
}
```

else

s1 = s1 + (Character.toLowerCase(Cstr.charAt(i)))

}

System.out.println(s1);

}

}

Q8. Write a program to input a sentence and convert it into upper case and count ~~the~~ and display the total number of words starting with a letter 'N' [ICSE 2019]

```
import java.util.*;  
class Vowels
```

{

```
public static void main()
```

```
{  
Scanner in = new Scanner(System.in);
```

```
String str;
```

```
int l, i, p, count
```

```
char ch1, ch2;
```

```
String w
```

```
System.out.println("Enter a sentence");
```

```
str = in.nextLine().toUpperCase();
```

```
l = str.length();
```

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

```
{
```

```
if (ch1 == 'N')
```

```
{
```

```
w = str.substring(p, i);
```

```
ch2 = w.charAt(0);
```

```
if (ch2 == 'N')
```

```
{
```

```
count++;
```

```
}
```

↳ p = i + 1;

↳ System.out.println("No of words starting
with A : " + count);

↳ }
↳ }