CODES :

1. Write a simple String program to take input from user

```
Question_01.java
```

```java
// 1. Write a simple String program to take input from user

import java.util.Scanner;
public class Question_01{
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Input : ");
        String s1 = new String(sc.nextLine());
        System.out.println(s1);
    }
}
```

```
Output :
```

```
Input :
Rahul Dutta
Rahul Dutta
```

2. How do you concatenate two strings in Java? Give an example?

1) String Concatenation by + (String concatenation) operator
2) String Concatenation by concat() method

```
Question_02.java
```

```java
// 2. How do you concatenate two strings in Java? Give an
example?

public class Question_02 {

  public static void main(String args[]) {
    System.out.println("Method 01");
    String s = "Rahul" + " " + "Dutta";
    System.out.println(s);
```

```
    System.out.println("Method 02");
    String s1 = "Sourav ";
    String s2 = "Dutta";
    String s3 = s1.concat(s2);
    System.out.println(s3);
  }
}
```

Output :

```
Method 01
Rahul Dutta
Method 02
Sourav Dutta
```

3. How do you find the length of a string in Java Explain with an example?

1. Declare a variable of type String
2. Initialize the String variable to a non-null value
3. Call the Java String length() method
4. Hold the value of the String length in a variable for future use

Question_03

```java
// 3. How do you find the length of a string in Java Explain
with an example?

public class Question_03 {

  public static void main(String[] args) {
    String javaString = "Rahul Dutta";
    int stringSize = javaString.length();
    System.out.println(stringSize);
  }
}
```

Output :

```
11
```

4. How do you compare two strings in Java? Give an Example

1. **public boolean equals(Object another)** compares this string to the specified object.

2. **public boolean equalsIgnoreCase(String another)** compares this string to another string, ignoring case.

```java
// 4. How do you compare two strings in Java? Give an Example

public class Question_04 {

  public static void main(String[] args) {
    String s1 = "Sachin";
    String s2 = "Sachin";
    String s3 = new String("Sachin");
    String s4 = "Saurav";
    System.out.println(s1.equals(s2)); //true
    System.out.println(s1.equals(s3)); //true
    System.out.println(s1.equals(s4)); //false

    String s5 = "Sachin";
    String s6 = "Sachin";
    String s7 = new String("Sachin");
    System.out.println(s5 == s6); //true (because both refer
to same instance)
    System.out.println(s5 == s7); //false(because s3 refers to
instance created in nonpool)
  }
}
```

Output :

```
true
true
false
true
false
```

5. Write a program to find the length of the string "refrigerator".

```java
// 5. Write a program to find the length of the string
"refrigerator".
public class Question_05 {
    public static void main(String[] args) {
        String s1 = "refrigerator";
```

```java
        System.out.println("Length of \"refrigerator\" is : "+
s1.length());
    }
}
```

Output :

```
Length of "refrigerator" is : 12
```

6. Write a program to check if the letter 'e' is present in the word 'Umbrella'.

Question_06.java

```java
// 6. Write a program to check if the letter 'e' is present in
the word 'Umbrella'.

public class Question_06 {
    public static void main(String[] args) {
        char c = 'e';
        String s1 = "Umbrella";

        for(int i = 0;i<s1.length();i++){
            if(s1.charAt(i)==c){
                System.out.println(c+" is present in "+ s1);
                break;
            }
        }
    }
}
```

Output :

```
e is present in Umbrella
```

7. Write a program to delete all consonants from the string "Hello, have a good day"

Question_07.java

```java
// 7. Write a program to delete all consonants from the string
"Hello, have a good day"

public class Question_07 {

  public static void main(String args[]) {
```

```java
String s = "Hello, have a good day";
for (int i = 0; i < s.length(); i++) {
  if (
    s.charAt(i) == 'a' ||
    s.charAt(i) == 'A' ||
    s.charAt(i) == 'e' ||
    s.charAt(i) == 'E' ||
    s.charAt(i) == 'i' ||
    s.charAt(i) == 'I' ||
    s.charAt(i) == 'o' ||
    s.charAt(i) == 'O' ||
    s.charAt(i) == 'U' ||
    s.charAt(i) == 'u' ||
    s.charAt(i) == ' '
  ) {
    System.out.print(s.charAt(i));
  } else {
    continue;
  }
}
}
}
```

Output :

eo ae a oo a