LEARNING ACTIVITY SHEET
SPECIAL PROGRAM IN ICT 8
BASIC PROGRAMMING
Fourth Quarter, Week 1

Name of Learner:_____   Date:_____

Grade Level /Section: _____

DEFINING STRING

Background Information for Learners

In Java, string is basically an object that represents sequence of char values. An array of characters works same as Java string. For example:

```
char[] ch={'j','a','v','a','_','p','o','i','n','t'};
String s=new String(ch);
```

is same as:

```
String s="java_point";
```

Java String class provides a lot of methods to perform operations on strings such as compare(), concat(), equals(), split(), length(), replace(), compareTo(), intern(), substring() etc.

What is String in Java?

Generally, String is a sequence of characters. But in Java, string is an object that represents a sequence of characters. The java.lang.String class is used to create a string object.

There are two ways to create String object:

1. By string literal - Java String literal is created by using double quotes. For Example:
   String s="welcome";
2. By new keyword
   String s=new String("Welcome");//creates two objects and one reference variable

Example 1:

```java
public class StringExample{
public static void main(String args[]){
String s1="java";//creating string by java string literal
char ch[]={'s','t','r','i','n','g','s'};
String s2=new String(ch);//converting char array to string
String s3=new String("example");//creating java string by new keyword
System.out.println(s1);
System.out.println(s2);
System.out.println(s3);
}}
```

Output:

```
java
strings
example
```

Example 2:

```java
public class StringExample
{
        public static void main (String[]args)
        {
        String school="Sta. Rita National High School";//by java string literal
        char district[]={'C','A','B','I','A','O'};
        String add=new String(district);//converting char array to string
        String ID=new String("123456");//by new keyword
        System.out.println(school);
        System.out.println(add);
        System.out.println(ID);
        }
}
```

Output:

```
Sta. Rita National High School
CABIAO
123456
```

Learning Competency with Code

Define what string is

Describe how text is stored in strings

Exercises/Activities

Activity 1

Direction:

1. Create a source code that will print the following:

   - Full name (java string literal)

   - Section(char array to string) and

   - School name(by new keyword)

Sample Output:

```
JUAN A. DELA CRUZ
LARRY_PAGE
Sta Rita National High School
```

2. Write your code in a one whole sheet of paper.

3. **Reflection:** Write your answer in a one whole sheet of paper.

   What is the difference between string and char?

References for Learners

https://www.javatpoint.com/java-string

Prepared by: **NOEMI F. MAGNO**
                      Name of Writer

Noted by: **LABERNE A. LADIGNON, JR**
                      Division ICT Coordinator/ OIC EPS