Q1. write a simple string program to take input from users .

Ans - **import** java.util.Scanner;

**public** **class** stat {

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

Scanner scanner = **new** Scanner(System.***in***);

System.***out***.println("What is your name: ");

String name = scanner.nextLine();

System.***out***.println("What is your age: ");

**int** age = scanner.nextInt();

System.***out***.println("hey "+ name+ "! you are "+ age +" year old ");

scanner.close();

}

}

Q2 . how do you concatenate two strings in java ? Give an example ?

Ans - In Java, you can concatenate two strings using the concatenation operator (+) or by using the concat() method. Here's an example of both approaches:

1. Using the concatenation operator (+):

String str1 = "Hello";

String str2 = "world";

String result = str1 + " " + str2;

System.out.println(result);

2. Using concat () method

String str1 = "Hello";

String str2 = "world";

String result = str1.concat(" ").concat(str2);

System.out.println(result);

Q3. how do you find the length of a string in java explain with example ?

Ans - In Java, you can find the length of a string using the length() method. This method returns the number of characters in the string. Here's an example that demonstrates how to find the length of a string:

**public** **class** stat {

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

String myString = "my name is murtza ";

**int** len = myString.length();

System.***out*** .println("length of the string is : " + len);

}

}

Q4. How do you compare two strings in java ? give an example .

Ans - In Java, you can compare two strings using the equals() method or the compareTo() method. Here's an example that demonstrates both approaches:

**public** **class** stat {

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

String str1 = "Hello";

String str2 = "World";

String str3 = "Hello";

**boolean** isEqual1 = str1.equals(str2);

**boolean** isEqual2 = str1.equals(str3);

System.***out***.println("Using equals() method:");

System.***out***.println("str1 equals str2? " + isEqual1);

System.***out***.println("str1 equals str3? " + isEqual2);

**int** compareResult1 = str1.compareTo(str2);

**int** compareResult2 = str1.compareTo(str3);

System.***out***.println("\nUsing compareTo() method:");

System.***out***.println("str1 compared to str2: " + compareResult1);

System.***out***.println("str1 compared to str3: " + compareResult2);

**if** (str1.compareTo(str2)==0) {

System.***out***.println("Strings str1 and str2 are equal");

}

**else** {

System.***out***.println("Strings str1 and str2 are not equal");

}

**if** (str1.compareTo(str3)==0) {

System.***out***.println("Strings str1 and str3 are equal");

}

**else** {

System.***out***.println("Strings str1 and str3 are not equal");

}

}

}

Q5. Write a program to find the length of the string “refrigerator”.

**public** **class** stat {

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

String word = "refrigerator";

**int** length = word.length();

System.***out***.println("The length of the string is: " + length);

}

}

Q6. write a program to check if the letter ‘e’ is present in the word ‘umbrella’.

**public** **class** findchar {

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

String word = "umbrella";

**char** word1 = 'e';

**boolean** flag = **false** ;

**for**(**int** i = 0; i<word.length(); i++) {

**if** (word.charAt(i)==word1) {

flag = **true** ;

}

}

**if** (flag == **false**) {

System.***out***.println("Charater 'e' is not present in that string ");

}

**else** {

System.***out***.println("Character 'e' is present in that string");

}

}

}

Q7. write a program to delete all consonants from the string “hello, have a good day”.

Ans - **public** **class** delete {

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

String inputString = "hello, have a good day";

String result = *removeConsonants*(inputString);

System.***out***.println(result);

}

**public** **static** String removeConsonants(String str) {

String vowels = "aeiouAEIOU";

StringBuilder consonantFree = **new** StringBuilder();

**for** (**int** i = 0; i < str.length(); i++) {

**char** c = str.charAt(i);

**if** (vowels.indexOf(c) != -1) {

consonantFree.append(c);

}

}

**return** consonantFree.toString();

}

}