**ASSIGNMENT 1**

**JAVA PROGRAMMING**

# 1.Java Program to reverse each word.

# PROGRAM:

**public** **class** TestStringFormatter {

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

    System.out.println(StringFormatter.reverseWord("my name is DHANUSH"));

    System.out.println(StringFormatter.reverseWord("I am sonoo KARTHICK"));

    }

}

# OUTPUT:

**ym eman si HSUNAHD**

**I ma oonos KCIHTRAK**

# 2.Program to check username

# Program:

# import java.util.Scanner;

# import java.util.regex.Pattern;

# public class UsernameValidator {

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

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

# System.out.print("Enter the username: ");

# String username = scanner.nextLine();

# if (isValidUsername(username)) {

# System.out.println("Valid username!");

# } else {

# System.out.println("Invalid username!");

# }

# }

# public static boolean isValidUsername(String username) {

# if (username.length() < 4 || username.length() > 20) {

# return false;

# }

# if (!Character.isLetter(username.charAt(0))) {

# return false;

# }

# 

# Pattern pattern = Pattern.compile("^[a-zA-Z0-9\_]\*$");

# if (!pattern.matcher(username).matches()) {

# return false;

# }

# return true;

# }

# }

# Output:

# C:\Users\student>java username.java

# Enter the username: 232

# Invalid username!

# 3.program to reverse a number

# Program:

**public** **class** ReverseNumberExample1

{

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

{

**int** number = 987654, reverse = 0;

**while**(number != 0)

{

**int** remainder = number % 10;

reverse = reverse \* 10 + remainder;

number = number/10;

}

System.out.println("The reverse of the given number is: " + reverse);

}

}

# Output:

The reverse of the *given number is: 456789*

# 4.eligible for vote or not

# Program:

import java.util.Scanner;

**public** **class** **Voting** {

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

{

**int** age, diff;

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

System.**out**.println("Please enter your age: ");

age = scan.nextInt();

**if**(age>=18)

{

System.**out**.println("You are eligible for voting.");

}

**else**

{

diff = (18 - age);

System.**out**.println("Sorry,You can vote after: "+ diff + " years");

}

}

# }

# Output:

Please enter your age:

20

# You are eligible for voting.