1. Write a Java Program to convert Binary to Decimal number. To convert Binary to Decimal number

input-110110111

output-439

Answers: package power;

public class binary {

public static void main(String[] args) {

// binary number

long num = 110110111;

// call method by passing the binary number

int decimal = *convertBinaryToDecimal*(num);

System.***out***.println("Binary to Decimal");

System.***out***.println(num + " = " + decimal);

}

public static int convertBinaryToDecimal(long num) {

int decimalNumber = 0, i = 0;

long remainder;

while (num != 0) {

remainder = num % 10;

num /= 10;

decimalNumber += remainder \* Math.*pow*(2, i);

++i;

}

return decimalNumber;

}

}

2. Write a Java Program to calculate power using recursion

To calculate power using recursion

input-3

4

output-81

Answers

package power;

import java.util.Scanner;

public class Exame {

public static int calculatePower(int main, int exponent) {

if (exponent == 0) {

return 1;

}

else{

return main \* *calculatePower*(main, exponent - 1);

}

}

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter a value");

int main = scanner.nextInt();

System.out.print("Enter the powervalue ");

int exponent = scanner.nextInt();

int result = calculatePower(main , exponent);

System.out.println(main + " raised to the power " + exponent + " is: " + result);

    }

}