

Daily Work Practice Date:- 14/8/2023

Program:- Check if number is a sum of powers of three

```
package com.ishwarchavan;

public class CheckPowersOfThree {                                //class is created

    public static void checkPowers(int n) { //function is created with parameter n
value

        while(n > 0) {                                           //iterate the n number until n is non zero
            if(n % 3 == 2) {                                       //condition for terminate the loops

                System.out.println("No");
                return;
            }
            n=n/3;          //checking with deviding 3 then assinging value to n
        }
        System.out.println("Yes");

    }

    public static void main(String[] args) {    // main program started
        int n= 14;
        checkPowers( n);                        //calling the function

    }

}
```

Program:- Convert Integer To English Word

```
package com.ishwarchavan;

import java.util.Scanner;

public class IntegerToEnglishWord {

    private static String integerToWords(int a) {           //creating function to
convert integer to word

        String word = " ";

        String unitarray[]=
{"zero","one","two","three","four","five","six","seven","eight","nine",

        "ten","eleven","twelve","thirteen","fourteen","fifteen","sixteen","seventeen","e
igteen","nineteen"};    //unit array is created

        String tensarray[]=
{"zero","ten","twenty","thirty","fourty","fifty","sixty","seventy","eighty","ninety"};
        //tens array is created

        if(a == 0) {           //if true then return 0
            return "zero";
        }
        if(a<0) {           //if true then execute the below statement
            String number= ""+a;
            number = number.substring(1);
            return "minus" + integerToWords(Integer.parseInt(number));
        }
        //return the minus number

        if((a/1000000)>0) {           //if true then execute statement
            word=word+integerToWords( a/1000000)+"million";
            a=a%1000000;           //storing remainder
        }

        if((a/1000)>0) {           //if true then execute statement
```

```

        word=word+integerToWords( a/1000)+"thousand";
        a=a%1000;           //storing the remainder
    }
    if((a/100)>0) {
        word=word+integerToWords( a/100)+"hundred";
        a=a%100;
    }
    if(a>0) {                //if true then execute statement
        if(a<20) {           //if less than 20 then execute unitarray
            word= word+ unitarray[a];
        }else {
            word=word+ tensarray[a/10];
            if((a%10)>0) {     //if ramainder is greater than 0
then execute tensarray
                word=word+"-"+tensarray[a%10];
            }
        }
    }
    return word;             // return the word string
}

public static void main(String[] args) {           // main program is started
    Scanner sc= new Scanner(System.in);           //taking the input from user
    int number= 0;
    number=sc.nextInt();
    if(number == 0) {
        System.out.println("Zero");
    }else {
        System.out.println("Number in words : "+ integerToWords(number));
    }
}
}

```