package epamtask5.com.task5;

import java.util.Scanner;

import java.util.logging.\*;

public class ClaculateSimpleAndCompoundIntrest {

Logger log = Logger.getLogger(ClaculateSimpleAndCompoundIntrest.class.getName());

public void simpleIntrest(double principle,double time,double rate) {

double simpleintrestvalue = (principle \* time \* rate) / 100;

log.info(""+simpleintrestvalue);

}

public void compoundIntrest(double principle,double time,double rate) {

double compoundintrestvalue = (principle \* Math.pow(1.0 + rate / 100.0 , time) - principle);

log.info(""+compoundintrestvalue);

}

public void inputDetails() {

try (Scanner sc = new Scanner(System.in)){

Boolean flag = true;

ClaculateSimpleAndCompoundIntrest calculate = new ClaculateSimpleAndCompoundIntrest();

while(flag) {

log.info(""+"1.Simple Interest\n2.Compound Interest\n");

log.info(""+"Choose the operation which you want to perform : \n");

int ch = sc.nextInt();

log.info(""+ "Enter the amount of principle : ");

double p = sc.nextDouble();

log.info(""+ "Enter the number of years : ");

double t = sc.nextDouble();

log.info(""+ "Enter the rate of interest : ");

double r = sc.nextDouble();

switch(ch) {

case 1 :

log.info(""+"-----SIMPLE INTEREST-----\n");

log.info(""+ "The simple interest for the given amount is : ");

calculate.simpleIntrest(p, t, r);

log.info(""+ "\n");

log.info("\nDo you want to perform more operations?(y/n)");

ch=sc.next().charAt(0);

if(ch == 'y'||ch=='Y')

flag = true;

else {

flag = false;

log.info(""+"Exit");

}

break;

case 2:

log.info("-----COMPOUND INTEREST-----\n");

log.info(""+ "The compound interest for the given amount is : ");

calculate.compoundIntrest(p, t, r);

log.info(""+ "\n");

log.info("\nDo you want to perform more operations?(y/n)");

ch=sc.next().charAt(0);

if(ch == 'y'||ch=='Y')

flag = true;

else {

flag = false;

log.info("Exit");

}

break;

}

}

}

catch(Exception e) {

log.info(""+ "Input exception");

}

}

}

**package** epamtask5.com.task5;

**class** DisplayLogger **extends** ClaculateSimpleAndCompoundIntrest {

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

DisplayLogger invoke = **new** DisplayLogger();

invoke.inputDetails();

}

}