Lesson 1.0.1 Class Work Sheet

Name:

Date:

Class:

See if you can tell what each of the following java programs is doing. Write your comments directly on the paper. (In later lessons, we will do this with an IDE or a text editor.)

1.

class JavaExample {

public static void main(String args[]) {

int n = 100;

System.out.print("Odd Numbers from 1 to "+n+" are: ");

for (int i = 1; i <= n; i++) {

if (i % 2 != 0) {

System.out.print(i + " ");

}

}

}

}

2. import java.util.Scanner;

class AreaOfRectangle {

public static void main (String[] args)

{

Scanner scanner = new Scanner(System.in);

System.out.println("Enter the length of Rectangle:");

double length = scanner.nextDouble();

System.out.println("Enter the width of Rectangle:");

double width = scanner.nextDouble();

//Area = length\*width;

double area = length\*width;

System.out.println("Area of Rectangle is:"+area);

}

}

3.

import java.util.Scanner;

class ReverseNumberWhile

{

public static void main(String args[])

{

int num=0;

int reversenum =0;

System.out.println("Input your number and press enter: ");

//This statement will capture the user input

Scanner in = new Scanner(System.in);

//Captured input would be stored in number num

num = in.nextInt();

//While Loop: Logic to find out the reverse number

while( num != 0 )

{

reversenum = reversenum \* 10;

reversenum = reversenum + num%10;

num = num/10;

}

System.out.println("Reverse of input number is: "+reversenum);

}

}

4.

import java.util.Scanner;

class PrimeCheck

{

public static void main(String args[])

{

int temp;

boolean isPrime=true;

Scanner scan= new Scanner(System.in);

System.out.println("Enter any number:");

//capture the input in an integer

int num=scan.nextInt();

scan.close();

for(int i=2;i<=num/2;i++)

{

temp=num%i;

if(temp==0)

{

isPrime=false;

break;

}

}

//If isPrime is true then the number is prime else not

if(isPrime)

System.out.println(num + " is a Prime Number");

else

System.out.println(num + " is not a Prime Number");

}

}