1.Program to find out area of triangle

class Area1

{

double b,h,a;

Area1 (double a1)

{

b=a1;

}

}

class Triangle extends Area1

{

double h1;

Triangle(double a,double b)

{

super(a);

this.h1=b;

}

void find()

{

double an=h1\*b/2;

System.out.println("The area of triangle is "+an);

}

public static void main(String[] args)

{

Area1 ar=new Area1(3.5);

Triangle t=new Triangle(3.5,5.0);

t.find(); } }

Output:

The area of triangle is 8.75

Press any key to continue . . .

2.Check wheather a given number is Armstrong or not

import java.util.\*;

class Armstrong

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

int x=n,r,s=0;

while(n>0)

{

r=n%10;

s=s+r\*r\*r;

n=n/10;

}

if(x==s)

System.out.println("yes it is an armstrong number");

else

System.out.println("No it is not an armstrong number ");

}

}

Output:

153

yes it is an armstrong number

Press any key to continue . . .

3.Check wheather the given number is palindrome or not.

import java.util.\*;

class Palindrome

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

String k=String.valueOf(n);

StringBuilder sb=new StringBuilder(k);

String k1=sb.reverse().toString();

if(k.equals(k1))

System.out.println("yes it is an Palindrome number");

else

System.out.println("No it is not an Palindrome number ");

}

}

Output:

1001

yes it is an Palindrome number

Press any key to continue . . .

4.Generate First N prime Numbers

import java.util.\*;

class PrimeNumber

{

public static boolean find(int n){

int i=2;

while(i<=n/2)

{

if(n%i==0)

return false;

i+=1;

}

return true;

}

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter a number ");

int n=sc.nextInt();

ArrayList<Integer> a=new ArrayList<>();

int i=1;

while(a.size()!=n)

{

if(find(i))

a.add(i);

i+=1;

}

for(Integer l:a)

System.out.println(l);

}

}

Output:

Enter a number

5

1

2

3

5

7

Press any key to continue . . .

5.Print Even numbers between two given numbers

import java.util.\*;

class Even\_Number

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

int a=sc.nextInt();

int b=sc.nextInt();

int i=1;

while(a<b)

{

if(a%2==0)

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

a+=1;

}

}

}

Output:

10

25

10 12 14 16 18 20 22 24 Press any key to continue . . .

6.What is Abstraction ?

A. It is the property of object Oriented programming by using which can hide implementation of a software .It can be achieved with the help Interfaces and abstract classes.

7.What is Encapsulation ?

A.It is the property of an Object Oriented Programming by using which we can bind the data into single unit.It can be achieved with the help of Getters and Setters(Bean Class).

8.What is JDK ?

A.It is the combination of JVM ,JRE and development tools which is responsible for providing runtime environment ,libraries to executing Java Program.It is Platform Dependent.

9.What is JVM ?

A.It is a java virtual machine which will provide runtime environment to executing a java program by using the libraries provided by JRE at its runtime.

10.Define inheritance

A. The process by which one class acquires the properties(data members) and functionalities(methods) of another class is called **inheritance**. The aim of inheritance is to provide the reusability of code so that a class has to write only the unique features and rest of the common properties and functionalities can be extended from the another class.

11.How Java achieved platform Independence ?

A.Java platform-independent is that the java compiled code(byte code) can run on all operating systems.so It will follow write once run anywhere.

12.Write the syntax of main function ?

A. public static void main(String[] args){}

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

static public void main(String []x) {}

static public void main(String...args) {}

13.What is Conditional Operator ?

A. The conditional operator is a ternary operator (it has three operands) and is used to evaluate boolean expressions, much like an if statement except instead of executing a block of code if the test is true, a conditional operator will assign a value to a variable.

C=(a<b)? ”Less” :”More”

14.How Many Datatypes in Java ?

A.There are Eight data types in Java.

15. what is constant in java how it is declared ?

A. A constant is a variable whose value cannot change once it has been assigned. Java doesn't have built-in support for constants, but the variable modifiers static and final can be used to effectively create one.

static final int cons=10;