1)BOOK info using class and object

import java.util.\*;

class Book{

int bid;

String bname ,author;

Double price;

public void accept()

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter the Bid,Name,Author pice");

bid=sc.nextInt();

bname=sc.nextLine();

author=sc.nextLine();

price=sc.nextDouble();

}

void display()

{

System.out.println("Book no is " + bid);

System.out.println("Book name is " + bname);

System.out.println("Book author is " + author);

System.out.println("Book price is " + price);

}

}

public class Main{

public static void main(String[] args) {

Book b=new Book();

b.accept();

b.display();

}

}

2)Student info

Stud\_Demo.java

import java.util.Scanner;

class Student

{

int rno;

String sname;

double per;

void accept()

{

Scanner sc=new Scanner (System.in);

System.out.println("Enter rollno ,name & per");

rno=sc.nextInt();

sname=sc.next();

per=sc.nextDouble();

}

void display()

{

System.out.println("Rollno="+rno);

System.out.println("Name="+sname);

System.out.println("Per="+per);

}

}

public class StudDemo {

public static void main(String[] args) {

Student s1=new Student();

s1.accept();

s1.display();

Student s2=new Student();

s2.accept();

s2.display();

Student s3=new Student();

s3.accept();

s3.display();

}

}

3)Vehicle info

import java.util.\*;

class Vehicle{

int vid,price;

String vname ,company,color,owner;

public void accept()

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter the Vehicle id,name,company,color,owner,and price");

vid=sc.nextInt();

vname=sc.next();

company=sc.next();

color=sc.next();

owner=sc.next();

price=sc.nextInt();

}

void display()

{

System.out.println("vehicle no is " + vid);

System.out.println("Vehicle name is " + vname);

System.out.println("Vehical company is " + company);

System.out.println("Vehical color is " + color);

System.out.println("Vehical owner is " + owner);

System.out.println("vehicle price is " + price);

}

}

public class Main{

public static void main(String[] args) {

Vehicle v=new Vehicle();

v.accept();

v.display();

}

}

4)Employee info

import java.util.\*;

class Employee{

int eid;

String ename ,designation;

Double salary;

public void accept()

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter the Employee id,name,salary,designation");

eid=sc.nextInt();

ename=sc.next();

salary=sc.nextDouble();

designation=sc.next();

}

void display()

{

System.out.println("Employee no is " + eid);

System.out.println("Employee name is " + ename);

System.out.println("Employee salary is " + salary);

System.out.println("Employee designation is " + designation);

}

}

public class Main{

public static void main(String[] args) {

Employee e=new Employee();

e.accept();

e.display();

}

}

5)Find area of circle

import java.util.Scanner;

class AreaDemo

{

double r,A;

void accept(double r)//double r1

{

this.r=r;//r=r1;

}

double cal\_area()

{

A=3.14\*r\*r;

return(A);

}

}

public class Main

{

public static void main(String[] args)

{

double r,A;

Scanner sc =new Scanner (System.in);

AreaDemo a1=new AreaDemo();

System.out.println("Enter value of r");

r=sc.nextDouble();

a1.accept(r);

A=a1.cal\_area();

System.out.println("Area="+A);

}

}

6)Factorial

import java.util.\*;

class Fact\_Demo

{

int n,f1=1,i;

void accept(int n)

{

this.n=n;

}

int cal\_fact()

{

for(i=n;i>=1;i--)

{

f1=f1\*i;

}

return(f1);

}

}

public class Main

{

public static void main(String[] args)

{

int n,f1;

Scanner sc =new Scanner(System.in);

Fact\_Demo a1=new Fact\_Demo();

System.out.println("Enter value of r");

n=sc.nextInt();

a1.accept(n);

f1=a1.cal\_fact();

System.out.println("Fact="+f1);

}

}

6)Maximum between two

import java.util.\*;

class Maximum

{

int n2,n1;

void accept(int n1,int n2)

{

this.n1=n1;

this.n2=n2;

}

String display()

{

if(n1>n2)

{

return "n1 is max";

}

else if(n1<n2)

{

return "n2 is max";

}

else

{

return " Both are equal";

}

}

}

public class Main {

public static void main(String[] args) {

int n1,n2;

String max;

Scanner sc =new Scanner(System.in);

System.out.println("Enter any two value");

n1=sc.nextInt();

n2=sc.nextInt();

Maximum m=new Maximum();

m.accept(n1,n2);

max=m.display();

System.out.println(max);

}

}

}

7)Maximum from 3 number

import java.util.\*;

class Maximum

{

int n2,n1,n3;

void accept(int n1,int n2,int n3)

{

this.n1=n1;

this.n2=n2;

this.n3=n3;

}

String display()

{

if(n1<n2 && n2>n3)

{

return "n2 is max";

}

else if(n1<n1 && n1>n3)

{

return "n1 is max";

}

else

{

return "n3 is max";

}

}

}

public class Main {

public static void main(String[] args) {

int n1,n2,n3;

String max;

Scanner sc =new Scanner(System.in);

System.out.println("Enter any three value");

n1=sc.nextInt();

n2=sc.nextInt();

n3=sc.nextInt();

Maximum m=new Maximum();

m.accept(n1,n2,n3);

max=m.display();

System.out.println(max);

}

}

8)Prime

import java.util.\*;

class Prime

{

int i,x,fact=1;

void accept(int x)

{

this.x=x;

}

String display()

{

for(i=2;i<x;i++)

{

if(i%x==0)

{

fact=0;

break;

}}

if(fact==0)

{

return "not Prime";

}

else

{

return" prime";

}

}

}

public class Main {

public static void main(String[] args) {

int x;

String pr;

Scanner sc =new Scanner(System.in);

System.out.println("Enter any value");

x=sc.nextInt();

Prime p=new Prime();

p.accept(x);

pr=p.display();

System.out.println(pr);

}

}

9)check vowels are present or not

import java.util.\*;

class VowelChecker {

public void checkVowels(String str) {

int vowelCount = 0;

for (char c : str.toLowerCase().toCharArray()) {

if (c == 'a' || c == 'e' || c == 'i' || c == 'o' || c == 'u') {

vowelCount++;

}

}

System.out.println("Number of vowels in the string: " + vowelCount);

}

}

public class vowel

{

public static void main(String[] args) {

VowelChecker checker = new VowelChecker();

checker.checkVowels("Hello World");

}

}

10)Reverse number

import java.util.\*;

class Reverse

{

int n,sum=0,n1;

void accept(int n)

{

this.n=n;

}

void display()

{

while(n>0)

{

n1=n%10;

n=n/10;

sum=(sum\*10)+n1;

}

System.out.println("Reverse no is " + sum);

}

}

public class Main

{

public static void main(String[] args) {

int n;

String s;

Scanner sc=new Scanner(System.in);

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

n=sc.nextInt();

Reverse r=new Reverse();

r.accept(n);

r.display();

}

}

11)Armstrong

import java.util.\*;

class Armstrong

{

int n,sum=0,n1,temp;

void accept(int n)

{

this.n=n;

}

String display()

{

while(n>0)

{

n1=n%10;

sum=sum+(n1\*n1\*n1);

n=n/10;

}

if(sum==temp)

{

return"No is armstrong";

}

else

{

return "No is not armstrong";

}

}

}

public class Main

{

public static void main(String[] args) {

int n;

String s;

Scanner sc=new Scanner(System.in);

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

n=sc.nextInt();

Armstrong a=new Armstrong();

a.accept(n);

s=a.display();

System.out.println(s);

}

}

12)dissarium

import java.util.\*;

class Dissarium

{

int n,count=0,n1,temp,i,sum=0;

void accept(int n)

{

this.n=n;

}

String display()

{

temp=n;

while(temp!=0)

{

count++;

temp/=10;

}

temp=n;

while(temp>0)

{

n1=temp%10;

temp/=10;

int f1=1;

for(i=1;i<=count;i++)

{

f1\*=n1;

}

sum+=f1;

count--;

}

if(sum==n)

{

return "numer is Dissarium";

}

else

{

return "not Dissarium";

}

}

}

public class Main

{

public static void main(String[] args) {

int n;

String s;

Scanner sc=new Scanner(System.in);

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

n=sc.nextInt();

Dissarium d=new Dissarium();

d.accept(n);

s=d.display();

System.out.println(s);

}

}

13)Magic number or not

import java.util.Scanner;

public class MagicNumber {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter a number: ");

int number = scanner.nextInt();

if (isMagicNumber(number)) {

System.out.println("The number is a magic number.");

} else {

System.out.println("The number is not a magic number.");

}

}

public static boolean isMagicNumber(int number) {

int sum = 0;

while (number!= 0) {

sum += number % 10;

number /= 10;

}

return sum == 1;

}

}

14)multifunction

import java.util.Scanner;

public class ParaMethodDemo

{

int flag=0,n1,n,x,sum=0,p,f1=1,i;

void accept(int n)

{

this.n=n;

}

void pattern()

{

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

{

for(int j=1;j<=i;j++)

{

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

}

System.out.println();

}

}

void prime()

{

for(i=2;i<=(n/2);i++)

{

if(n%i==0)

{

flag=1;

break;

}

}

if(flag==0)

System.out.println("No is prime");

else

System.out.println("No is not prime");

}

String pal()

{

p=n;

while(p>0)

{

n1=p%10;

p=p/10;

sum=(sum\*10)+n1;

}

if(sum==n)

return "No is pal";

else

return "No is not pal";

}

int power(int x)

{

this.x=x;//this operator means acces the member of itself

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

{

f1=f1\*x;

}

return (f1);

}

public static void main(String[] args)

{

int n,x;

Scanner sc =new Scanner (System.in);

ParaMethodDemo a1=new ParaMethodDemo();

System.out.println("Enter value of n");

n=sc.nextInt();

a1.accept(n);

a1.pattern();

a1.prime();

System.out.println(""+a1.pal());

System.out.println("Enter value of x");

x=sc.nextInt();

int f1=a1.power(x);

System.out.println("Power"+f1);

}

}

**Using Array Object**

1)Student info using array of object

import java.util.Scanner;

class Student

{

int rno;

String sname;

double per;

void accept()

{

Scanner sc=new Scanner (System.in);

System.out.println("Enter rollno ,name & per");

rno=sc.nextInt();

sname=sc.next();

per=sc.nextDouble();

}

void display()

{

System.out.println("Rollno="+rno);

System.out.println("Name="+sname);

System.out.println("Per="+per);

}

}

public class Main {

public static void main(String[] args) {

int i,n;

Scanner sc=new Scanner (System.in);

System.out.println("Enter no of students");

n=sc.nextInt();

Student s1[]=new Student[n]; //array creation

for(i=0;i<n;i++)

{

s1[i]=new Student(); //object creation

s1[i].accept();

s1[i].display();

}

}

}

2) Book info using array object

import java.util.\*;

class Book{

int bid;

String bname ,author;

Double price;

public void accept()

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter the Bid,Name,Author pice");

bid=sc.nextInt();

bname=sc.nextLine();

author=sc.nextLine();

price=sc.nextDouble();

}

void display()

{

System.out.println("Book no is " + bid);

System.out.println("Book name is " + bname);

System.out.println("Book author is " + author);

System.out.println("Book price is " + price);

}

}

public class Main{

public static void main(String[] args)

{

int n,i;

Scanner sc=new Scanner(System.in);

System.out.println("Enter the no of books ");

n=sc.nextInt();

Book b[]=new Book[n];

for(i=0;i<n;i++)

{

b[i]=new Book();

b[i].accept();

b[i].display();

}

}

}

3)Vehicle info usng array

import java.util.\*;

class Vehicle{

int vid,price;

String vname ,company,color,owner;

public void accept()

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter the Vehicle id,name,company,color,owner,and price");

vid=sc.nextInt();

vname=sc.next();

company=sc.next();

color=sc.next();

owner=sc.next();

price=sc.nextInt();

}

void display()

{

System.out.println("vehicle no is " + vid);

System.out.println("Vehicle name is " + vname);

System.out.println("Vehical company is " + company);

System.out.println("Vehical color is " + color);

System.out.println("Vehical owner is " + owner);

System.out.println("vehicle price is " + price);

}

}

public class Main{

public static void main(String[] args) {

int n,i;

Scanner sc=new Scanner(System.in);

System.out.println("Enter the no of vehicals ");

n=sc.nextInt();

Vehicle v[]=new Vehicle[n];

for(i=0;i<n;i++)

{

v[i]=new Vehicle();

v[i].accept();

v[i].display();

}

}

}

4)Area of circle

import java.util.Scanner;

class AreaDemo

{

double r,A;

void accept(double r)//double r1

{

this.r=r;//r=r1;

}

double display()

{

A=3.14\*r\*r;

return(A);

}

}

public class Main

{

public static void main(String[] args)

{

double r,A;

int n,i;

Scanner sc =new Scanner (System.in);

System.out.println("Enter the nuber");

n=sc.nextInt();

AreaDemo a1[]=new AreaDemo[n];

for(i=0;i<n;i++)

{

System.out.println("Enter value of r");

r=sc.nextDouble();

a1[i]=new AreaDemo();

a1[i].accept(r);

A=a1[i].display();

System.out.println("Area="+A);

}

}

}

5)Employee info using array

import java.util.\*;

class Employee{

int eid;

String ename ,designation;

Double salary;

public void accept()

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter the Employee id,name,salary,designation");

eid=sc.nextInt();

ename=sc.next();

salary=sc.nextDouble();

designation=sc.next();

}

void display()

{

System.out.println("Employee no is " + eid);

System.out.println("Employee name is " + ename);

System.out.println("Employee salary is " + salary);

System.out.println("Employee designation is " + designation);

}

}

public class Main{

public static void main(String[] args) {

int i,n;

Scanner sc=new Scanner(System.in);

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

n=sc.nextInt();

Employee e[]=new Employee[n];

for(i=0;i<n;i++)

{

e[i]=new Employee();

e[i].accept();

e[i].display();

}

}

}

6)Factorial using array

import java.util.\*;

class Fact\_Demo

{

int n,f1=1,i;

void accept(int n)

{

this.n=n;

}

int cal\_fact()

{

for(i=n;i>=1;i--)

{

f1=f1\*i;

}

return(f1);

}

}

public class Main

{

public static void main(String[] args)

{

int n,f1,n1,i;

Scanner sc =new Scanner(System.in);

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

n1=sc.nextInt();

Fact\_Demo a1[]=new Fact\_Demo[n1];

for(i=0;i<n1;i++)

{

System.out.println("Enter value of r");

n=sc.nextInt();

a1[i]=new Fact\_Demo();

a1[i].accept(n);

f1=a1[i].cal\_fact();

System.out.println("Fact="+f1);

}

}

}

7)Maximum 2 number using array object

import java.util.\*;

class Maximum

{

int n2,n1;

void accept(int n1,int n2)

{

this.n1=n1;

this.n2=n2;

}

String display()

{

if(n1>n2)

{

return "n1 is max";

}

else if(n1<n2)

{

return "n2 is max";

}

else

{

return " Both are equal";

}

}

}

public class Main {

public static void main(String[] args) {

int n1,n2,n,i;

String max;

Scanner sc =new Scanner(System.in);

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

n=sc.nextInt();

Maximum m[]=new Maximum[n];

for(i=0;i<n;i++)

{

System.out.println("Enter any two value");

n1=sc.nextInt();

n2=sc.nextInt();

m[i]=new Maximum();

m[i].accept(n1,n2);

max= m[i].display();

System.out.println(max);

}

}

}

8)Maximum betwwen 3 using array

import java.util.\*;

class Maximum

{

int n2,n1,n3;

void accept(int n1,int n2,int n3)

{

this.n1=n1;

this.n2=n2;

this.n3=n3;

}

String display()

{

if(n1<n2 && n2>n3)

{

return "n2 is max";

}

else if(n1<n1 && n1>n3)

{

return "n1 is max";

}

else

{

return "n3 is max";

}

}

}

public class Main {

public static void main(String[] args) {

int n1,n2,n3,n,i;

String max;

Scanner sc =new Scanner(System.in);

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

n=sc.nextInt();

Maximum m[]=new Maximum[n];

for(i=0;i<n;i++)

{

System.out.println("Enter any three value");

n1=sc.nextInt();

n2=sc.nextInt();

n3=sc.nextInt();

m[i]=new Maximum();

m[i].accept(n1,n2,n3);

max= m[i].display();

System.out.println(max);

}

}

}

8)Prime number using array

import java.util.\*;

class Prime

{

int i,x,fact=1;

void accept(int x)

{

this.x=x;

}

String display()

{

for(i=2;i<x;i++)

{

if(i%x==0)

{

fact=0;

break;

}}

if(fact==0)

{

return "not Prime";

}

else

{

return" prime";

}

}

}

public class Main {

public static void main(String[] args) {

int x,i,n;

String pr;

Scanner sc =new Scanner(System.in);

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

n=sc.nextInt();

Prime p[]=new Prime[n];

for(i=0;i<n;i++)

{

System.out.println("Enter any value");

x=sc.nextInt();

p[i]=new Prime();

p[i].accept(x);

pr=p[i].display();

System.out.println(pr);

}

}

}

9)Reverse number using array

import java.util.\*;

class Reverse

{

int n,sum=0,n1;

void accept(int n)

{

this.n=n;

}

void display()

{

while(n>0)

{

n1=n%10;

n=n/10;

sum=(sum\*10)+n1;

}

System.out.println("Reverse no is " + sum);

}

}

public class Main

{

public static void main(String[] args) {

int n,n1,i;

String s;

Scanner sc=new Scanner(System.in);

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

n1=sc.nextInt();

Reverse r[]=new Reverse[n1];

for(i=0;i<n1;i++)

{

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

n=sc.nextInt();

r[i]=new Reverse();

r[i].accept(n);

r[i].display();

}

}

}

10)Armstrong using array oject

import java.util.\*;

class Armstrong

{

int n,sum=0,n1,temp;

void accept(int n)

{

this.n=n;

}

String display()

{

while(n>0)

{

n1=n%10;

sum=sum+(n1\*n1\*n1);

n=n/10;

}

if(sum==temp)

{

return"No is armstrong";

}

else

{

return "No is not armstrong";

}

}

}

public class Main

{

public static void main(String[] args) {

int n,n1,i;

String s;

Scanner sc=new Scanner(System.in);

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

n1=sc.nextInt();

Armstrong a[]=new Armstrong[n1];

for(i=0;i<n1;i++)

{

System.out.println("Enter any number to check armstrong or not");

n=sc.nextInt();

a[i]=new Armstrong();

a[i].accept(n);

s=a[i].display();

System.out.println(s);

}

}

}

11)Dissarium no using array object

import java.util.\*;

class Dissarium

{

int n,count=0,n1,temp,i,sum=0;

void accept(int n)

{

this.n=n;

}

String display()

{

temp=n;

while(temp!=0)

{

count++;

temp/=10;

}

temp=n;

while(temp>0)

{

n1=temp%10;

temp/=10;

int f1=1;

for(i=1;i<=count;i++)

{

f1\*=n1;

}

sum+=f1;

count--;

}

if(sum==n)

{

return "numer is Dissarium";

}

else

{

return "not Dissarium";

}

}

}

public class Main

{

public static void main(String[] args) {

int n,n1,i;

String s;

Scanner sc=new Scanner(System.in);

System.out.println("Enter any number how many times you want to check ");

n1=sc.nextInt();

Dissarium d[]=new Dissarium[n1];

for(i=0;i<n1;i++)

{

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

n=sc.nextInt();

d[i]=new Dissarium();

d[i].accept(n);

s=d[i].display();

System.out.println(s);

}

}

}

**Constructor**

1)Book info using array object in constructor

import java.util.\*;

class Book {

int bid;

String bname,author;

Double price;

Book()

{

bid=101;

bname="Shyam chi aai";

author="Sane Guruji";

price=200.00;

}

Book(int bid,String bname,String author,Double price)

{

this.bid=bid;

this.bname=bname;

this.author=author;

this.price=price;

}

void display()

{

System.out.println(bid +"\t"+bname+"\t"+author+"\t"+price);

}

}

public class Main

{

public static void main(String[] args)

{

int n,i,bid;

String bname,author;

Double price;

Book b=new Book();

b.display();

Scanner sc=new Scanner(System.in);

System.out.println("Enter no of records");

n=sc.nextInt();

Book b1[]=new Book[n];

for(i=0;i<n;i++)

{

System.out.println("Enter bood id ,name, author,and price");

bid=sc.nextInt();

bname=sc.next();

author=sc.next();

price=sc.nextDouble();

b1[i]=new Book(bid,bname,author,price);

}

System.out.println("Bid \t Bname \t Author \t Price");

System.out.println("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n");

for(i=0;i<n;i++)

{

b1[i].display();

}

}

}

2)Student info

import java.util.Scanner;

class Student

{

int rno;

String sname;

double per;

Student()

{

rno=1;

sname="parul";

per=87.09;

}

Student(int rno,String sname,Double per)

{

this.rno=rno;

this.sname=sname;

this.per=per;

}

void display()

{

System.out.println("Rollno="+rno);

System.out.println("Name="+sname);

System.out.println("Per="+per);

}

}

public class Main {

public static void main(String[] args) {

int n,i,rno;

String sname;

Double per;

Student s1=new Student();

s1.display();

Scanner sc=new Scanner(System.in);

System.out.println("Enter no of records");

n=sc.nextInt();

Student s2[]=new Student[n];

for(i=0;i<n;i++)

{

System.out.println("Enter student id ,name and percentage");

rno=sc.nextInt();

sname=sc.next();

per=sc.nextDouble();

s2[i]=new Student(rno,sname,per);

}

System.out.println("roll no \n name \n percentage ");

for(i=0;i<n;i++)

{

s2[i].display();

}

}

}

3)Vehicle info

import java.util.\*;

class Vehicle{

int vid,price;

String vname ,company,color,owner;

Vehicle()

{

vid=101;

vname="Car";

company="MarutiSuzuki";

color="Red";

owner="Suzuki Motor Corporation ";

price=800000;

}

Vehicle(int vid,String vname,String company,String color,String owner,int price)

{

this.vid=vid;

this.vname=vname;

this.company=company;

this.color=color;

this.owner=owner;

this.price=price;

}

void display()

{

System.out.println("vehicle no is " + vid);

System.out.println("Vehicle name is " + vname);

System.out.println("Vehical company is " + company);

System.out.println("Vehical color is " + color);

System.out.println("Vehical owner is " + owner);

System.out.println("vehicle price is " + price);

}

}

public class Main{

public static void main(String[] args) {

int n,i,vid,price;

String vname ,company,color,owner;

Vehicle v=new Vehicle();

v.display();

Scanner sc=new Scanner(System.in);

System.out.println("Enter the no of vehicals ");

n=sc.nextInt();

Vehicle v1[]=new Vehicle[n];

for(i=0;i<n;i++)

{

System.out.println("Enter the Vehicle id,name,company,color,owner,and price");

vid=sc.nextInt();

vname=sc.next();

company=sc.next();

color=sc.next();

owner=sc.next();

price=sc.nextInt();

v1[i]=new Vehicle(vid,vname,company,color,owner,price);

}

System.out.println("Vehicle id \n Vehicle Name \n Vehicale company \n vehicle color \n vehicle owner \n vehicle price");

for(i=0;i<n;i++)

{

v1[i].display();

}

}

}

4)Area of circle

import java.util.Scanner;

class AreaDemo

{

double r,A;

AreaDemo()

{

System.out.println("Area of circle is 23");

}

AreaDemo(double r)

{

this.r=r;

}

void display()

{

A=3.14\*r\*r;

System.out.println("Area of circle is" + A);

}

}

public class Main

{

public static void main(String[] args)

{

double r,A;

int n,i;

AreaDemo a=new AreaDemo();

Scanner sc =new Scanner (System.in);

System.out.println("Enter the nuber");

n=sc.nextInt();

AreaDemo a1[]=new AreaDemo[n];

for(i=0;i<n;i++)

{

System.out.println("Enter value of r");

r=sc.nextDouble();

a1[i]=new AreaDemo(r);

}

System.out.println("Area of circle ");

for(i=0;i<n;i++)

{

a1[i].display();

}

}

}

5)Employee details

import java.util.\*;

class Employee{

int eid;

String ename ,designation;

Double salary;

Employee()

{

eid=1;

ename="Ram";

salary=2000.0;

designation="Worker";

}

Employee(int eid,String ename,Double salary,String designation)

{

this.eid=eid;

this.ename=ename;

this.salary=salary;

this.designation=designation;

}

void display()

{

System.out.println("Employee no is " + eid);

System.out.println("Employee name is " + ename);

System.out.println("Employee salary is " + salary);

System.out.println("Employee designation is " + designation);

}

}

public class Main{

public static void main(String[] args) {

int i,n,eid;

String ename ,designation;

Double salary;

Employee e1=new Employee();

e1.display();

Scanner sc=new Scanner(System.in);

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

n=sc.nextInt();

Employee e[]=new Employee[n];

for(i=0;i<n;i++)

{

System.out.println("Enter the Employee id,name,salary,designation");

eid=sc.nextInt();

ename=sc.next();

salary=sc.nextDouble();

designation=sc.next();

e[i]=new Employee(eid,ename,salary,designation);

}

System.out.println("Employee details");

for(i=0;i<n;i++)

{

e[i].display();

}

}

}

6)factorial

import java.util.\*;

class Fact\_Demo

{

int n,f1=1,i;

Fact\_Demo()

{

System.out.println("Factorial of 5 is 120");

}

Fact\_Demo(int n)

{

this.n=n;

}

void cal\_fact()

{

for(i=n;i>=1;i--)

{

f1=f1\*i;

}

System.out.println("Factorial of number is " +f1);

}

}

public class Main

{

public static void main(String[] args)

{

int n,f1,n1,i;

Fact\_Demo a=new Fact\_Demo();

a.cal\_fact();

Scanner sc =new Scanner(System.in);

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

n1=sc.nextInt();

Fact\_Demo a1[]=new Fact\_Demo[n1];

for(i=0;i<n1;i++)

{

System.out.println("Enter value of r");

n=sc.nextInt();

a1[i]=new Fact\_Demo(n);

}

System.out.println("FFactorial of number is");

for(i=0;i<n1;i++)

{

a1[i].cal\_fact();

}

}

}

7)Maximum between 2

import java.util.\*;

class Maximum

{

int n2,n1;

Maximum()

{

System.out.println("Maximum no of 3 and 5 is 5");

}

Maximum(int n1,int n2)

{

this.n1=n1;

this.n2=n2;

}

void display()

{

if(n1>n2)

{

System.out.println("n1 is max");

}

else if(n1<n2)

{

System.out.println("n2 is max");

}

else

{

System.out.println(" Both are equal");

}

}

}

public class Main {

public static void main(String[] args) {

int n1,n2,n,i;

String max;

Maximum m1=new Maximum();

m1.display();

Scanner sc =new Scanner(System.in);

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

n=sc.nextInt();

Maximum m[]=new Maximum[n];

for(i=0;i<n;i++)

{

System.out.println("Enter any two value");

n1=sc.nextInt();

n2=sc.nextInt();

m[i]=new Maximum(n1,n2);

}

System.out.println("Maximm no is");

for(i=0;i<n;i++)

{

m[i].display();

}

}

}

8)Maximum betwwen 3 using constructor

import java.util.\*;

class Maximum

{

int n2,n1,n3;

Maximum()

{

System.out.println("Maximum no of 4 7 8 is 8 ");

}

Maximum(int n1,int n2,int n3)

{

this.n1=n1;

this.n2=n2;

this.n3=n3;

}

void display()

{

if(n1<n2 && n2>n3)

{

System.out.println("n2 is max");

}

else if(n1<n1 && n1>n3)

{

System.out.println("n1 is max");

}

else

{

System.out.println("n3 is max");

}

}

}

public class Main {

public static void main(String[] args) {

int n1,n2,n3,n,i;

String max;

Maximum m1=new Maximum();

m1.display();

Scanner sc =new Scanner(System.in);

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

n=sc.nextInt();

Maximum m[]=new Maximum[n];

for(i=0;i<n;i++)

{

System.out.println("Enter any three value");

n1=sc.nextInt();

n2=sc.nextInt();

n3=sc.nextInt();

m[i]=new Maximum(n1,n2,n3);

}

System.out.println("Maximum no is");

for(i=0;i<n;i++)

{

m[i].display();

}

}

}

9)Prime no

import java.util.\*;

class Prime

{

int i,x,fact=1;

Prime()

{

System.out.println("Prime no of 1-5 is 2,3,5");

}

Prime(int x)

{

this.x=x;

}

void display()

{

for(i=2;i<x;i++)

{

if(i%x==0)

{

fact=0;

break;

}}

if(fact==1)

{

System.out.println( "not Prime");

}

else

{

System.out.println(" prime");

}

}

}

public class Main {

public static void main(String[] args) {

int x,i,n;

String pr;

Prime p1=new Prime();

p1.display();

Scanner sc =new Scanner(System.in);

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

n=sc.nextInt();

Prime p[]=new Prime[n];

for(i=0;i<n;i++)

{

System.out.println("Enter any value");

x=sc.nextInt();

p[i]=new Prime(x);

}

System.out.println("Prime no is ");

for(i=0;i<n;i++)

{

p[i].display();

}

}

}

10) 9)Reverse number using constructor

import java.util.\*;

class Reverse

{

int n,sum=0,n1;

Reverse()

{

System.out.println("Reverse number of 123 is 321");

}

Reverse(int n)

{

this.n=n;

}

void display()

{

while(n>0)

{

n1=n%10;

n=n/10;

sum=(sum\*10)+n1;

}

System.out.println("Reverse no is " + sum);

}

}

public class Main

{

public static void main(String[] args) {

int n,n1,i;

String s;

Reverse r1=new Reverse();

r1.display();

Scanner sc=new Scanner(System.in);

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

n1=sc.nextInt();

Reverse r[]=new Reverse[n1];

for(i=0;i<n1;i++)

{

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

n=sc.nextInt();

r[i]=new Reverse(n);

}

System.out.println("Reverse number is ");

for(i=0;i<n1;i++)

{

r[i].display();

}

}

}

11) Armstrong using constructor

import java.util.\*;

class Armstrong

{

int n,sum=0,n1,temp;

Armstrong()

{

System.out.println("armstrong number in between 1-10 is 1,2,3,4,5,6,7,8,9");

}

Armstrong(int n)

{

this.n=n;

}

void display()

{

while(n>0)

{

n1=n%10;

sum=sum+(n1\*n1\*n1);

n=n/10;

}

if(sum==temp)

{

System.out.println("No is armstrong");

}

else

{

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

}

}

}

public class Main

{

public static void main(String[] args) {

int n,n1,i;

String s;

Armstrong a1=new Armstrong();

a1.display();

Scanner sc=new Scanner(System.in);

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

n1=sc.nextInt();

Armstrong a[]=new Armstrong[n1];

for(i=0;i<n1;i++)

{

System.out.println("Enter any number to check armstrong or not");

n=sc.nextInt();

a[i]=new Armstrong(n);

}

System.out.println("Armstrong number is ");

for(i=0;i<n1;i++)

a[i].display();

}

}

12)Dissarium no using constructor

import java.util.\*;

class Dissarium

{

int n,count=0,n1,temp,i,sum=0;

void accept(int n)

{

this.n=n;

}

String display()

{

temp=n;

while(temp!=0)

{

count++;

temp/=10;

}

temp=n;

while(temp>0)

{

n1=temp%10;

temp/=10;

int f1=1;

for(i=1;i<=count;i++)

{

f1\*=n1;

}

sum+=f1;

count--;

}

if(sum==n)

{

return "numer is Dissarium";

}

else

{

return "not Dissarium";

}

}

}

public class Main

{

public static void main(String[] args) {

int n,n1,i;

String s;

Dissarium d1=new Dissarium();

d1.display();

Scanner sc=new Scanner(System.in);

System.out.println("Enter any number how many times you want to check ");

n1=sc.nextInt();

Dissarium d[]=new Dissarium[n1];

for(i=0;i<n1;i++)

{

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

n=sc.nextInt();

d[i]=new Dissarium(n);

}

for(i=0;i<n1;i++)

{

d[i].display();

}

}

}