



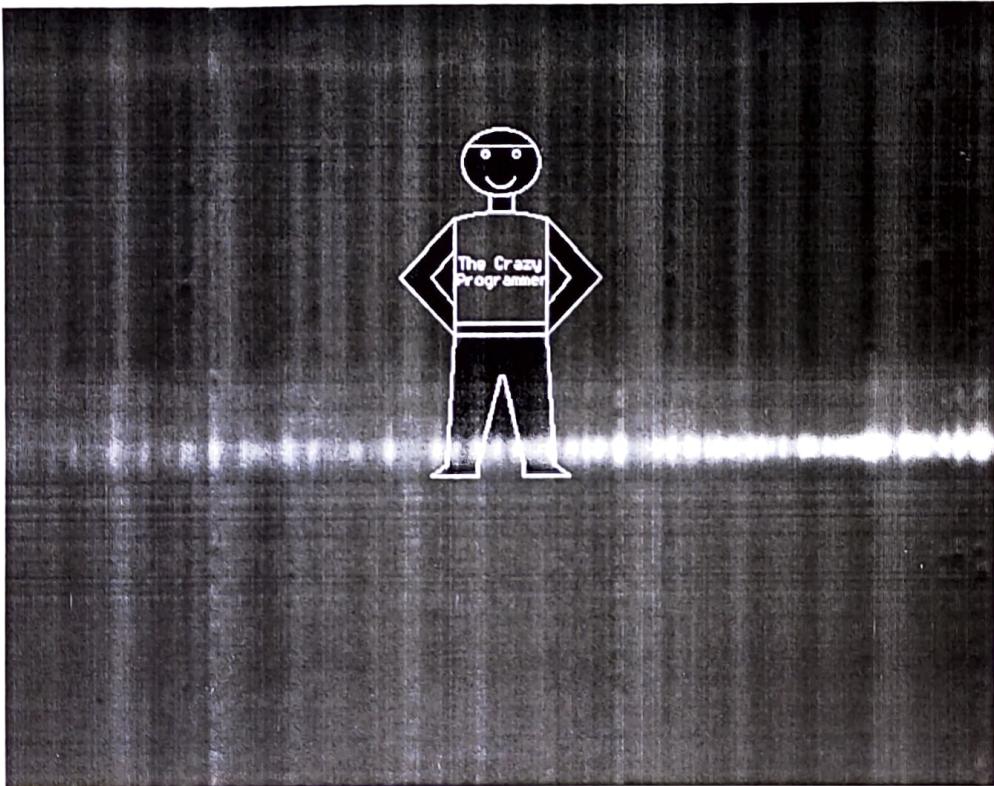
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---

OUTPUT:





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---

```
line(305,280,305,287);

[ line(335,280,335,287);
  line(335,287,365,287);
  line(355,280,365,287);

//for name
settextstyle(2,HORIZ_DIR,4);
outtextxy(293,150,"The Crazy");
outtextxy(292,160,"Programmer");

getch();
closegraph();

}
```



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---

```
line(290,129,290,200);  
line(350,129,350,200);  
line(290,193,350,193);  
line(290,200,350,200);
```

```
//for legs  
line(290,200,285,280);  
line(320,225,305,280);  
line(322,225,335,280);  
line(350,200,355,280);
```

```
//for right hand  
line(290,129,255,165);  
line(255,165,290,200);  
line(290,149,275,165);  
line(275,165,290,182);
```

```
//for left hand  
line(350,129,385,165);  
line(385,165,350,200);  
line(350,149,365,165);  
line(365,165,350,182);
```

```
//for shoes  
line(285,280,275,287);  
line(275,287,305,287);
```

---



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---

Question: Program to Print a Man

SOLU:

```
#include<graphics.h>
#include<iostream.h>
#include<stdlib.h>
#include<stdio.h>
#include<conio.h>
void main()
{
    int gdriver=DETECT,gmode;
    initgraph(&gdriver, &gmode, "");

    //for head
    ellipse(320,95,360,0,25,20);
    line(298,85,341,85);
    circle(310,90,2);
    circle(330,90,2);
    arc(320,100,200,-20,10);

    //for neck
    line(313,115,313,125);
    line(328,115,328,125);

    //For centre part
    arc(320,225,72,107,100);
```

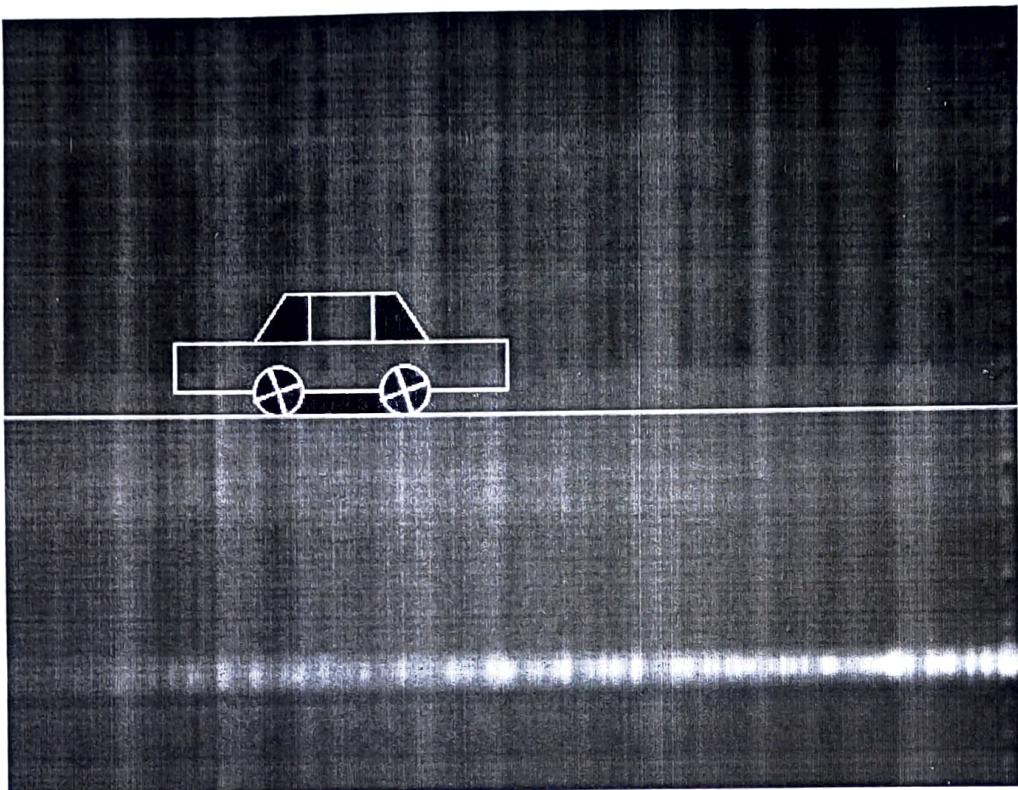


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---





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---

```
pieslice(65+i,230,359-j,360-j,15);
pieslice(65+i,230,179-j,180-j,15);
pieslice(65+i,230,89-j,90-j,15);
pieslice(65+i,230,269-j,270-j,15);
```

```
pieslice(145+i,230,359-j,360-j,15);
pieslice(145+i,230,179-j,180-j,15);
pieslice(145+i,230,89-j,90-j,15);
pieslice(145+i,230,269-j,270-j,15);
```

```
if(j==179)
j=0;
++j;
delay(30);
cleardevice();
}
closegraph();
}
```

OUTPUT:



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---

Question: Program to print a Car

SOLU:

```
#include<graphics.h>
#include<conio.h>
#include<dos.h>

void main()
{
intgdriver=DETECT,gmode,i=0,j=0;
initgraph(&gdriver,&gmode,"");

for(i;i<420;++i)
{
line(0,245,650,245);
line(0+i,200,210+i,200);
line(50+i,200,70+i,170);
line(70+i,170,140+i,170);
line(140+i,170,160+i,200);
line(85+i,170,85+i,200);
line(125+i,170,125+i,200);

line(0+i,200,0+i,230);
line(210+i,200,210+i,230);
line(0+i,230,50+i,230);
circle(65+i,230,15);
line(80+i,230,130+i,230);
circle(145+i,230,15);
line(210+i,230,160+i,230);
```



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---

# COMPUTE GRAPHICS



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---

```
{  
yearev;  
ev.input();  
ev.output();  
}
```

OUTPUT:

```
enter any year=1994  
not leap year
```



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---

Class year

{

Private:

int a;

public:

void input()

{

Cout<<"\n enter any year=";

Cin>>a;

}

Void output()

{

if(a%4==0)

{

Cout<<"\n leap year";

}

else

{

Cout<<"\n not leap year";

}

}

};

Void main()



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---

```
Void main()
```

```
{
```

```
evenoddev;
```

```
ev.input();
```

```
ev.output();
```

```
}
```

OUTPUT:

```
enter any no=5
odd no
```

**Question :Wap to input any no and print the leap year?**

SOLU:

```
#include<iostream.h>
#include<conio.h>
```



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---

```
#include<conio.h>

Class evenodd

{
    Private:
        int a;

    public:
        void input()
        {
            Cout<<"\n enter any no=";
            Cin>>a;
        }

        Void output()
        {
            if(a%2==0)
            {
                Cout<<"\n even no";
            }
            else
            {
                Cout<<"\n odd no";
            }
        }
};
```



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```
Void main()
```

```
{
```

```
arraya,b,c;
```

```
a.input();
```

```
b.input();
```

```
c=a-b;
```

```
c.display();
```

```
}
```

OUTPUT:

9	
8	
7	
6	
5	
4	
3	
2	
1	
3	
5	
5	
5	
2	

Question :WAP to input any no and print the even no. or odd?

SOLU:

```
#include<iostream.h>
```



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```
};

Void array::input()
{
int i;
for(i=0;i<5;i++)
cin>>a[i];
}

arrayarray:operator-(array x)
{
array temp;
int i;
for(i=0;i<5;i++)
{
temp.a[i]=a[i]-x.a[i];
}
return(temp);
}

void array::display()
{
int i;
for(i=0;i<5;i++)
cout<<"\n"<<a[i];
}
```

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(Inactive C:\TCWIN45\BIN\NONAME16.EXE)

**enter height of a person in feet and inch=8 9**

**feet=8  
inch=11**

**Question :Overload – operator to subtract two array?**

**SOLU:**

```
#include<iostream.h>
#include<conio.h>
Class array
{
int a[5];
public:
void input();
array operator-(array x);
void display();
```



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---

```
{
```

```
Cout<<"\n feet=" << f;
```

```
Cout<<"\n inch=" << inch;
```

```
}
```

```
};
```

```
Void main()
```

```
{
```

```
Height p;
```

```
p.input();
```

```
p++;
```

```
p++;
```

```
p.display();
```

```
}
```

OUTPUT:



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---

```
#include<conio.h>

Class height

{
    int f,inch;

public:
    void input()
    {
        Cout<<"\n enter height of a person in feet and inch=";
        Cin>>f>>inch;
    }

    Void operator++()
    {
        if(inch==11)
        {
            f++;
            inch=0;
        }
        else
        {
            inch++;
        }
    }

    Void display()
```

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```
{  
Complex c1,c2;  
C1.input();  
C2=-c1;  
C1.output();  
C2.output();  
}
```

OUTPUT:

```
5  
6  
-5+i-6-5+i-6
```

Question :WAP to overload ++ operator to increase the height of a person by 1 inch?

SOLU:

```
#include<iostream.h>
```



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---

Class complex

{

Private:

Float real;

Float img;

Public:

void input()

{

Cin>>real;

Cin>>img;

}

Void output()

{

Cout<<real<<"+"<<img;

}

Complex operator-()

{

real=-real;

img=-img;

return \*this;

}

};

Void main()



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```
C2.input();
```

```
C3=c1+c2;
```

```
C3.output();
```

```
}
```

OUTPUT:

```
(Inactive C:\TCWIN45\BIN\NONAME14.EXE)
2
3
3
3
5+i6
```

Question :Overloading minus for complex class?

SOLU:

```
#include<iostream.h>
```

```
#include<conio.h>
```



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---

```
floatimg;  
public:  
void input()  
{  
    Cin>>real;  
    Cin>>img;  
}  
void output()  
{  
    Cout<<real<<"+"<<img;  
}  
complex operator +(complex obj)  
{  
    complex result;  
    result.real=real+obj.real;  
    result.img=img+obj.img;  
    return result;  
}  
};  
void main()  
{  
    Complex c1,c2,c3;  
    C1.input();
```



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```
(Inactive C:\TCWIN45\BIN\NONAME13.EXE)

enter speed100
enter speed200
second train is fast
```

Question :Overload + in complex class?

SOLU:

```
#include<iostream.h>
#include<conio.h>

Class complex
{
    Private:
        float real;
```



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---

```
cout<<"\n enter speed";  
cin>>sp;  
}  
  
int operator>(train x)  
{  
if(sp>x.sp)  
return(1);  
else  
return(0);  
}  
};  
  
void main()  
{  
train t1,t2;  
t1.input();  
t2.input();  
if(t1>t2)  
cout<<"\n first train is fast"  
else  
cout<<"\n second train is fast"  
}
```

OUTPUT:



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```
(Inactive C:\TCWIN45\BIN\NONAME12.EXE)
enter the height of tiger10
enter the height of donkey10
both are equal
```

**Question :Overload > operator to compare the speed of two trains?**

SOLU:

```
#include<iostream.h>
```

```
#include<conio.h>
```

```
Class train
```

```
{
```

```
float sp;
```

```
public:
```

```
void input()
```

```
{
```



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---

```
Cin>>ht;  
}  
  
friend void compare(tiger t,donkey d)  
{  
if(t.ht>d.ht)  
cout<<"\n tiger is taller";  
else if(t.ht==d.ht)  
cout<<"\n both are equal";  
else  
cout<<"\n donkey is taller";  
}  
};  
  
void main()  
{  
tigertt;  
donkeydd;  
tt.input();  
dd.input();  
compare(tt,dd);  
}
```

OUTPUT:



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---

SOLU:

```
#include<iostream.h>
#include<conio.h>

Class donkey;

Class tiger
{
float ht;

public:
void input()
{
Cout<<"\n enter the height of tiger";
Cin>>ht;
}

Friend void compare(tiger t,donkey d);
};

Class donkey
{
float ht;

public:
void input()
{
Cout<<"\n enter the height of donkey";
```



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---

```
[1] (Inactive C:\TCWIN45\BIN\NONAME11.EXE)
your no. is2
your no. is3
6
```

**Question :WAP to compare the height of a donkey and a tiger?**



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---

```
{
```

```
Cout<<"\n your no. is";
```

```
Cin>>n1;
```

```
}
```

```
Class c:publica,public b
```

```
{
```

```
Public:
```

```
Void display();
```

```
};
```

```
Void c::display()
```

```
{
```

```
Putno();
```

```
Putno1();
```

```
Cout<<n*n1;
```

```
}
```

```
Void main()
```

```
{
```

```
C c1;
```

```
C1.display();
```

```
}
```

OUTPUT:

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---

```
{  
    cout<<"\n enter one no.";
```

```
    cin>>n;
```

```
}
```

```
void a::putno()
```

```
{
```

```
    cout<<"\n your no. is";
```

```
    cin>>n;
```

```
}
```

**Class b**

```
{
```

**Protected:**

```
int n1;
```

**public:**

```
void getno1();
```

```
void putno1();
```

```
};
```

```
void b::getno1()
```

```
{
```

```
    cout<<"\n enter a number";
```

```
    cin>>n1;
```

```
}
```

```
void b::putno1()
```



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```
(Inactive C:\TCWIN45\BIN\NONAME10.EXE)

how many elements do you want to enter3
enter first array2
3
4

second array1
6
7

answer=3
answer=9
answer=11
```

**Question :Develop a program to input two number and print the multiple no. using multiple inheritance**

SOLU:

```
#include<iostream.h>
```

```
#include<conio.h>
```

Class a

```
{
```

Protected:

```
int n;
```

public:

```
void getno();
```

```
void putno();
```

```
};
```

```
void a::getno()
```



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---

```
{  
Cin>>b[i];  
}  
}  
void sum()  
{  
for(i=0;i<n;i++)  
{  
C[i]=a[i]+b[i];  
cout<<"\n answer="<<c[i];  
}  
}  
};  
Void main()  
{  
arrayobj;  
obj.input();  
obj.sum();  
}  
OUTPUT:
```



Question :Add to array?

SOLU:

```
#include<iostream.h>
#include<conio.h>

Class array
{
private:
int a[10],b[10],c[10],i,n;
public:
void input()
{
cout<<"\n how many elements do you want to enter";
cin>>n;
cout<<"\n enter first array";
for(i=0;i<n;i++)
{
cin>>a[i];
}
cout<<"\n second array";
for(i=0;i<n;i++)
{
```



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```
Cout<<f;  
}  
};  
void main()  
{  
fact f;  
f.facto();  
}
```

OUTPUT:

The screenshot shows a terminal window with the title bar '(Inactive C:\TCWIN45\BIN\NONAME09.EXE)'. The window contains the following text:  
enter a number5  
120



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---

Question: WAP to input a number and find out the factorial of that number?

SOLU:

```
#include<iostream.h>
#include<conio.h>

Class fact
{
    Private:
        intnum;
        int f;
    public:
        void facto()
        {
            inti,f=1;
            cout<<"\n enter a number";
            cin>>num;
            for(i=1;i<=num;i++)
            {
                f=f*i;
            }
        }
}
```



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---

```
Obj.fibonaccino();
```

```
}
```

OUTPUT:

```
(Inactive C:\TCWIN45\BIN\NONAME08.EXE)

enter the no6
Fibonacci=8768
```



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---

public:

void input()

{

cout<<"\n enter the no";

cin>>n;

}

voidfibomaccino()

{

int a=0,b=1;

do

{

cout<<"\t";

a=b;

b=c;

c=a+b;

cout<<"\n Fibonacci=<<c;

}while(c<=n);

}

};

void main()

{

Fibonacci obj;

Obj.input();



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---

```
(Inactive C:\TCWIN45\BIN\NONAME06.EXE)

not Armstrong
enter a number345

not Armstrong
```

Question: Fibonacci

SOLU:

```
#include<iostream.h>
```

```
#include<conio.h>
```

```
class Fibonacci
```

```
{
```

Private:

```
intc,n;
```



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---

```
Cout<<"\n not Armstrong";
```

```
}
```

```
}
```

```
};
```

```
void main()
```

```
{
```

```
    armstrongar(153);
```

```
    ar.sum();
```

```
    ar.disp();
```

```
    armstrong ar1;
```

```
    ar1.getno();
```

```
    ar1.sum();
```

```
    ar1.disp();
```

```
}
```

OUTPUT:



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---

```
}

void getno()

{

cout<<"\n enter a number";

cin>>b;

}

void sum()

{

while(n>0)

{

C=n%10;

m=m+c*c*c;

n=n/10;

}

}

void disp()

{

if(m==p)

{

Cout<<"\n Armstrong";

}

else

{
```

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SOLU

```
#include<iostream.h>
```

```
#include<conio.h>
```

```
Class Armstrong
```

```
{
```

```
private
```

```
int m,n,b,c,p,
```

```
public
```

```
armstrong(int a)
```

```
{
```

```
n=a;
```

```
n=0;
```

```
p=n;
```

```
}
```

```
armstrong()
```

```
{
```

```
n=b;
```

```
m=0;
```

```
p=n;
```



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```
t.disp();
```

```
}
```

OUTPUT:

```
[Inactive C:\TCWIN45\BIN\NONAME05.EXE]
enter a numbers
5
10
15
20
25
30
35
40
45
50
275
```

Question :WAP to pass the parameter as number through a constructor and check that is Armstrong or not Armstrong?

Prepared by: Vivek Raj

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```
C=0;  
n=0;  
}  
void getno()  
{  
    Cout<<"\n enter a number";  
    Cin>>n;  
}  
void disp()  
{  
    for(c=1;c<=10;c++)  
    {  
        d=n*c;  
        sum=sum+d;  
        cout<<"\n"<<d;  
    }  
    Cout<<"\n"<<sum;  
}  
};  
Void main()  
{  
    table t;  
    t.getno();
```



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```
(Inactive C:\TCWIN45\BIN\NONAME04.EXE)
```

```
enter bookid101
enter booknamejava
enter authorbalaguruswamy
enter price250
bookid=101 title=java
author=balaguruswamy
price=250
```

**Question : WAP to input a number and print the sum of that table?**

SOLU:

```
#include<iostream.h>
```

```
#include<conio.h>
```

Class table

```
{
```

Private:

```
int n,sum,c,d;
```

public:

```
table()
```

```
{
```

```
Sum=0;
```

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---

}

Void output()

{

Cout<<"\n bookid=<<bookid;

Cout<<"\t title=<<bname;

Cout<<"\n author=<<aname;

Cout<<"\n price=<<price;

}

};

Void main()

{

Book bk;

bk.input();

bk.output();

}

OUTPUT:



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---

Question: Wap to input/output records of a book

SOLU:

```
#include<iostream.h>
#include<conio.h>

Class book
{
    Private:
        intbookid;
        charbname[20];
        charaname[20];
        float price;
    public:
        void input()
        {
            cout<<"\n enter bookid";
            cin>>bookid;
            cout<<"\n enter bookname";
            cin>>bname;
            cout<<"\n enter author";
            cin>>aname;
            cout<<"\n enter price";
            cin>>price;
```



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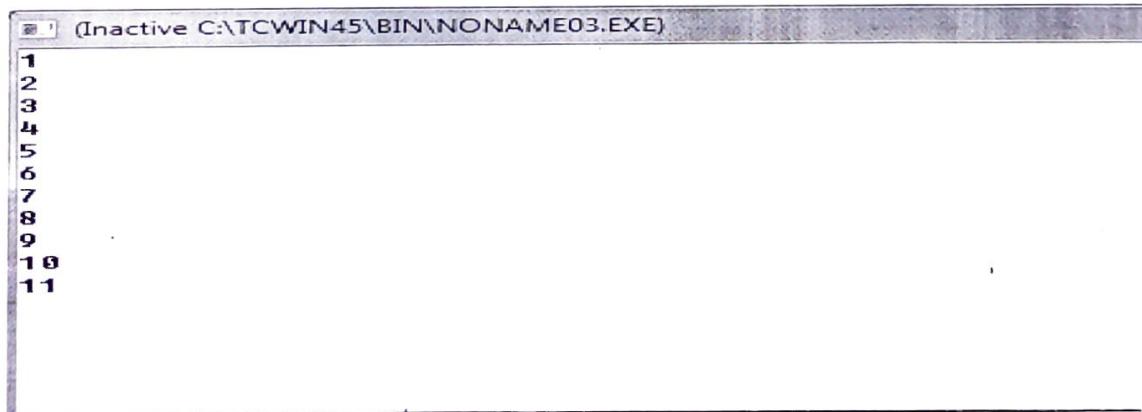
---

```
}

};

Void main()
{
Show s;
s.display();
}
```

**OUTPUT:**



```
1
2
3
4
5
6
7
8
9
10
11
```



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Question :wap to print first ten no. using constructor

Solu:

```
#include<iostream.h>
```

```
#include<conio.h>
```

Class show

```
{
```

Private:

```
int a;
```

public:

```
show()
```

```
{
```

```
a=0;
```

```
}
```

```
Void display()
```

```
{
```

```
While(a<=10)
```

```
{
```

```
a++;
```

```
cout<<a;
```

```
cout<<"\n";
```

```
}
```

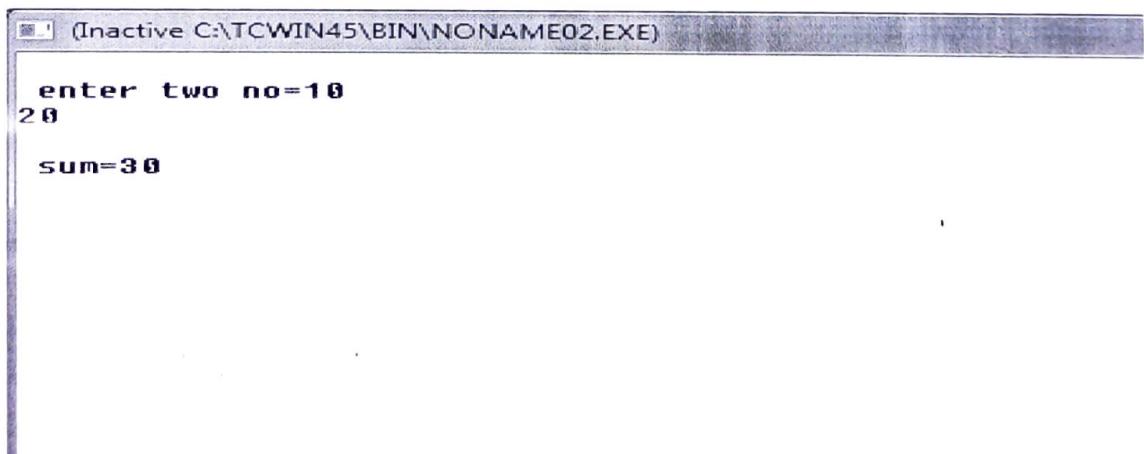


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---

```
{  
Sum su;  
Su.input();  
Su.output();  
}
```

OUTPUT:



```
enter two no=10  
20  
sum=30
```



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**Question: WAP to input two no and print the sum?**

SOLU:

```
#include<iostream.h>
```

```
#include<conio.h>
```

```
Class sum
```

```
{
```

```
Private:
```

```
inta,b,c;
```

```
Public:
```

```
Void input()
```

```
{
```

```
Cout<<"\n enter two no=";
```

```
Cin>>a>>b;
```

```
}
```

```
Void output()
```

```
{
```

```
C=a+b;
```

```
Cout<<"\n sum="<<c;
```

```
}
```

```
};
```

```
Void main()
```



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C++



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```
C:\Windows\system32\cmd.exe
enter n
5
sum of series=225
Press any key to continue . . .
```



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---

```
System.out.println("enter n");
n=Integer.parseInt(br.readLine());
}

public void output()
{
for(i=1;i<=n;i++)
{
s=s+i*i*i;
}
System.out.println("sum of series="+s);
}
}

classseq
{
public static void main(String args[])throws IOException
{
sequencesr=new sequence();
sr.input();
sr.output();
}
}

OUTPUT:
```



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```
C:\Windows\system32\cmd.exe
```

```
enter n  
5  
sum of series=55  
Press any key to continue . . .
```

Question: WAP to find the sum of series

$$S = 1^3 + 2^3 + \dots + n^3$$

SOLU:

```
import java.io.*;  
import java.lang.*;  
class sequence  
{  
private int i,n,s=0;  
public void input()throws IOException  
{  
InputStreamReader isr=new InputStreamReader(System.in);  
BufferedReader br=new BufferedReader(isr);
```



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---

```
System.out.println("enter n");
n=Integer.parseInt(br.readLine());
}

public void output()
{
for(i=1;i<=n;i++)
{
s=s+i*i;
}
System.out.println("sum of series="+s);
}
}

classseq
{
public static void main(String args[])throws IOException
{
sequencesr=new sequence();
sr.input();
sr.output();
}
}
}

OUTPUT:
```



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```
C:\Windows\system32\cmd.exe
C:\> sumofseries
Sum of series=15
Press any key to continue . . .
```

Question: WAP to find the sum of series

$$S = 1^2 + 2^2 + \dots + n^2$$

SOLU:

```
import java.io.*;
import java.lang.*;
class sequence
{
    private int i,n,s=0;
    public void input()throws IOException
    {
        InputStreamReader isr=new InputStreamReader(System.in);
        BufferedReader br=new BufferedReader(isr);
```



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---

```
BufferedReaderbr=new BufferedReader(isr);

System.out.println("enter n");

n=Integer.parseInt(br.readLine());

}

public void output()

{

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

{

s=s+i;

}

System.out.println("sum of series="+s);

}

}

classseq

{

public static void main(String args[])throws IOException

{

sequencesr=new sequence();

sr.input();

sr.output();

}

}

OUTPUT:
```

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```
C:\Windows\system32\cmd.exe
```

Question: WAP to find the sum of series

$$S = 1 + 2 + 3 + \dots + n$$

SOLU:

```
import java.io.*;
import java.lang.*;
class sequence
{
    private int i,n,s=0;
    public void input()throws IOException
    {
        InputStreamReader isr=new InputStreamReader(
            System.in);
        BufferedReader br=new BufferedReader(isr);
        System.out.print("Enter n:");
        n=Integer.parseInt(br.readLine());
        System.out.print("Enter i:");
        i=Integer.parseInt(br.readLine());
        System.out.print("Enter s:");
        s=Integer.parseInt(br.readLine());
    }
    public void output()
    {
        System.out.println("i=" + i);
        System.out.println("n=" + n);
        System.out.println("s=" + s);
    }
}
```



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---

```
}
```

```
public void output()
```

```
{
```

```
s=a+b;
```

```
System.out.println("sum="+s);
```

```
}
```

```
}
```

```
class add2
```

```
{
```

```
public static void main(String args[])throws IOException
```

```
{
```

```
ad d=new ad();
```

```
d.output();
```

```
}
```

```
}
```

```
OUTPUT:
```

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```
C:\Windows\system32\cmd.exe
enter any key . . .
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
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283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
```

Question: WAP to input two no. and print the sum, using constructor

SOLU:

```
import java.io.*;
import java.lang.*;

class ad

{
    private int a,b,s;

    public ad()throws IOException
    {
        InputStreamReader isr=new InputStreamReader(System.in);
        BufferedReader br=new BufferedReader(isr);

        System.out.println("enter two no");
        a=Integer.parseInt(br.readLine());
        b=Integer.parseInt(br.readLine());
    }
}
```



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---

```
public void output()
{
for(i=1;i<=10;i++)
{
t=n*i;

System.out.println(""+t);
}

}

}

}

class ta
{

public static void main(String args[])throws IOException
{

tab ta=new tab();
ta.input();
ta.output();
}

}

OUTPUT:
```



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```
C:\Windows\system32\cmd.exe
enter any no
120
press any key to continue . . .
```

Question: WAP to input any no. print the table

SOLU:

```
import java.io.*;
import java.lang.*;
class tab
{
    private int i,n,t;
    public void input()throws IOException
    {
        InputStreamReader isr=new InputStreamReader(System.in);
        BufferedReader br=new BufferedReader(isr);
        System.out.println("enter any no");
        n=Integer.parseInt(br.readLine());
    }
}
```



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---

```
n=Integer.parseInt(br.readLine());  
}  
  
public void output()  
{  
  
for(i=1;i<=n;i++)  
{  
  
f=f*i;  
}  
  
System.out.println("factorial="+f);  
}  
}  
  
classfac  
{  
  
public static void main(String args[])throws IOException  
{  
  
facto fc=new facto();  
  
fc.input();  
  
fc.output();  
}  
}  
  
OUTPUT:
```



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```
C:\> C:\Windows\system32\cmd.exe
Enter five subject
1.0
2.0
3.0
4.0
5.0
Press any key to continue . . .
```

Question: WAP to input any no. print the factorial

SOLU:

```
import java.io.*;
import java.lang.*;
class facto
{
    private int i,n,f=1;
    public void input()throws IOException
    {
        InputStreamReader isr=new InputStreamReader(System.in);
        BufferedReader br=new BufferedReader(isr);
        System.out.println("enter any no");
```



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---

```
{  
System.out.println("fail");  
}  
}  
}  
}  
}  
}  
class sub  
{  
public static void main(String args[])throws IOException  
{  
subjectsu=new subject();  
su.input();  
su.output();  
}  
}
```

OUTPUT:



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---

```
System.out.println("enter five subject");

m=Integer.parseInt(br.readLine());

c=Integer.parseInt(br.readLine());

g=Integer.parseInt(br.readLine());

e=Integer.parseInt(br.readLine());

h=Integer.parseInt(br.readLine());

}

public void output()

{

p=(m+c+g+e+h)/5;

if(p>=60)

{

System.out.println("first division");

}

else if(p>=45 && p<60)

{

System.out.println("second division");

}

else if(p>=30 && p<45)

{

System.out.println("third division");

}

else
```

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Question: WAP to input five different subjects and print the division

### SOLU:

```
import java.io.*;
import java.lang.*;
class subject
{
    private int m,c,g,e,h;
    private double p;
    public void input()throws IOException
    {
        InputStreamReader isr=new InputStreamReader(System.in);
        BufferedReader br=new BufferedReader(isr);
```



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---

```
classpatt
{
    public static void main(String args[])throws IOException
    {
        InputStreamReader isr=new InputStreamReader(System.in);
        BufferedReader br=new BufferedReader(isr);

        String st;
        int a,b;

        System.out.println("enter your word for the pattern printing");
        st=br.readLine();
        b=st.length();

        for(a=0;a<b;a++)
        {
            System.out.println(st.substring(0,a));
        }
    }
}

OUTPUT:
```



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}

}

OUTPUT:

```
C:\Windows\system32\cmd.exe
java Pattern
B
L
U
E
Press any key to continue . . .
```

Question: WAP to display the given pattern

```
B
B L
B L U
B L U E
B L U E J
```

SOLU:

```
import java.io.*;
import java.lang.*;
```



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Question: WAP to display the given pattern

B  
L  
U  
E  
J

SOLU:

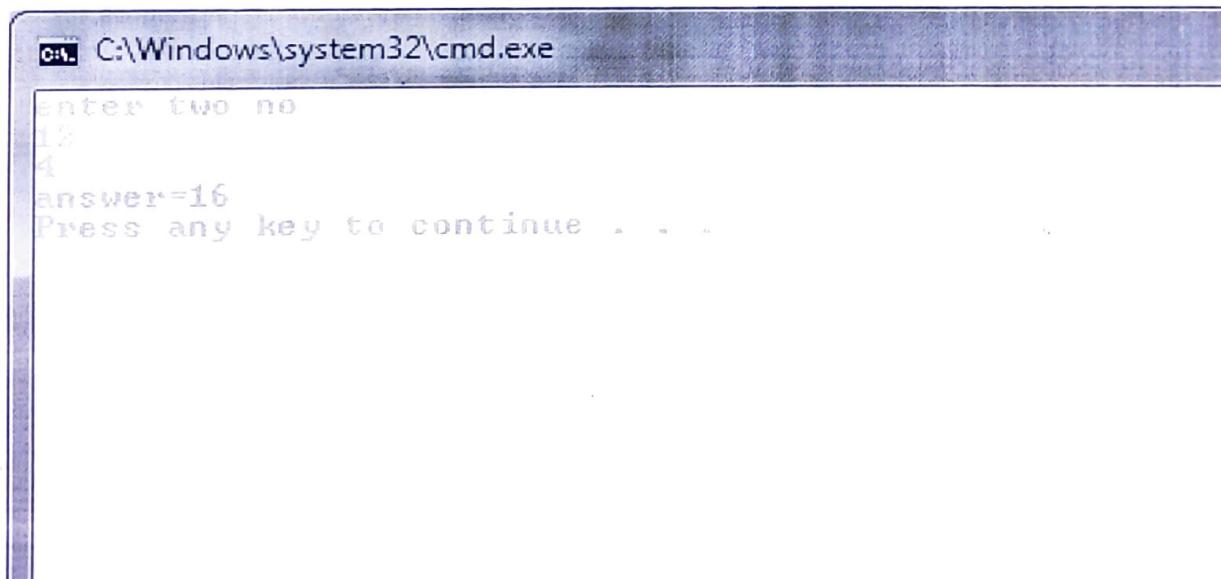
```
import java.io.*;
import java.lang.*;
class pattern
{
    public static void main(String args[])throws IOException
    {
        InputStreamReader isr=new InputStreamReader(System.in);
        BufferedReader br=new BufferedReader(isr);
        String wd;
        int a,y;
        System.out.println("enter your word for the pattern printing");
        wd=br.readLine();
        y=wd.length();
        for(a=0;a<y;a++)
            System.out.println(wd.charAt(a));
```



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```
{  
public static void main(String args[])throws IOException  
{  
addition a=new addition();  
a.add();  
}  
}
```

OUTPUT:



```
C:\Windows\system32\cmd.exe  
enter two no  
12  
4  
answer=16  
Press any key to continue . . .
```



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---

Question: WAP to input two no. and print the sum using constructor

SOLU:

```
import java.io.*;
import java.lang.*;
class addition
{
    private int a,b,s;
    public addition()throws IOException
    {
        InputStreamReader isr=new InputStreamReader(System.in);
        BufferedReader br=new BufferedReader(isr);
        System.out.println("enter two no");
        a=Integer.parseInt(br.readLine());
        b=Integer.parseInt(br.readLine());
    }
    public void add()
    {
        s=a+b;
        System.out.println("answer="+s);
    }
}
class ad
```



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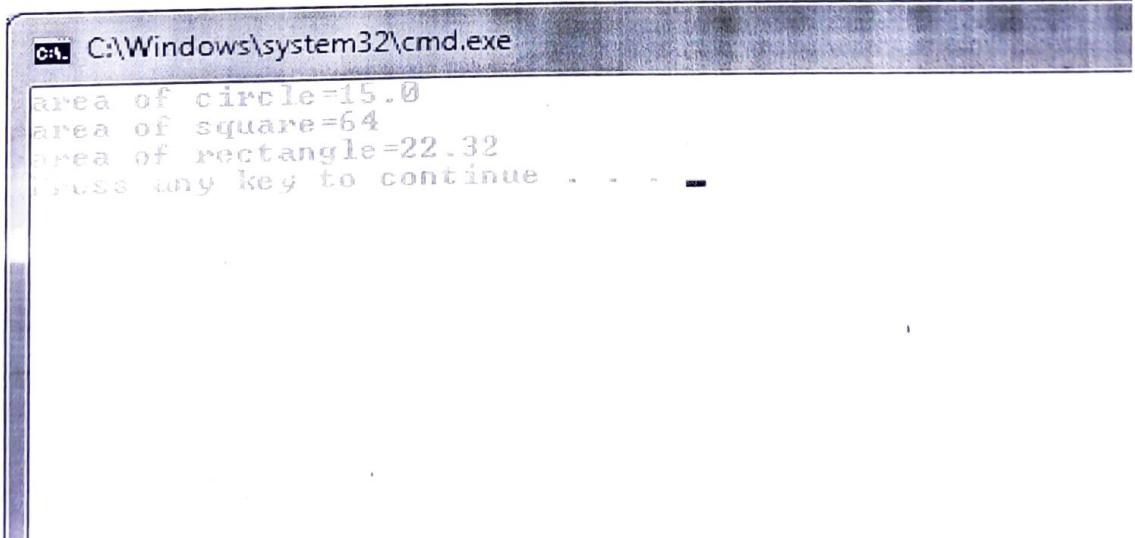
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---

```
{  
int n;  
  
double m,p;  
  
calculate ob=new calculate();  
  
m=ob.area(5,3);  
  
n=ob.area(8);  
  
p=ob.area(6.2,3.6);  
  
System.out.println("area of circle="+m);  
  
System.out.println("area of square="+n);  
  
System.out.println("area of rectangle="+p);  
}  
}
```

OUTPUT:



The screenshot shows a Windows Command Prompt window titled 'C:\Windows\system32\cmd.exe'. The output of the Java program is displayed, showing the areas calculated for a circle, square, and rectangle.

```
C:\Windows\system32\cmd.exe  
area of circle=15.0  
area of square=64  
area of rectangle=22.32  
Press any key to continue . . .
```



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---

Question: WAP to find the area of following geometrical figures using functions.

- Area of circle= $3.14 r^2$
- Area of square= $a^2$
- Area of rectangle=length\*breadth

SOLU:

```
class calculate
{
    double area(double r)
    {
        double ar1=3.14*r*r;
        return(ar1);
    }
    int area(int s)
    {
        int ar2=s*s;
        return(ar2);
    }
    double area(double a,double b)
    {
        double ar3=a*b;
        return(ar3);
    }
    public static void main(String args[])
}
```



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```
{  
public static void main(String args[])throws IOException  
{  
perfecpl=new perfec();  
pl.getdata();  
pl.putdata();  
}  
}
```

OUTPUT:

The screenshot shows a Windows command prompt window titled "C:\Windows\system32\cmd.exe". The window contains the following text:  
Enter any no.  
perfect no  
Enter any key or continue . . .



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---

```
n=Integer.parseInt(br.readLine());
```

```
}
```

```
public void putdata()
```

```
{
```

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

```
{
```

```
if(n%i==0)
```

```
{
```

```
s=s+i;
```

```
}
```

```
}
```

```
if(s==n)
```

```
{
```

```
System.out.println("perfect no");
```

```
}
```

```
else
```

```
{
```

```
System.out.println("not perfect no");
```

```
}
```

```
}
```

```
}
```

```
class per
```



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```
C:\Windows\system32\cmd.exe
ENTER any no.
6
6 is a perfect no.
Press any key to continue . . .
```

Question: WAP to input any no. and print the perfect no. or not

SOLU:

```
import java.io.*;
import java.lang.*;
classperfec
{
private int i,n,s=0;
public void getdata()throws IOException
{
InputStreamReaderisr=new InputStreamReader(System.in);
BufferedReaderbr=new BufferedReader(isr);
System.out.println("enter any no.");
```



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---

```
System.out.println("neon no");

}

else

{

System.out.println("not neon no");

}

}

}

class neo

{

public static void main(String args[])throws IOException

{

neonpl=new neon();

pl.getdata();

pl.putdata();

}

}

OUTPUT:
```



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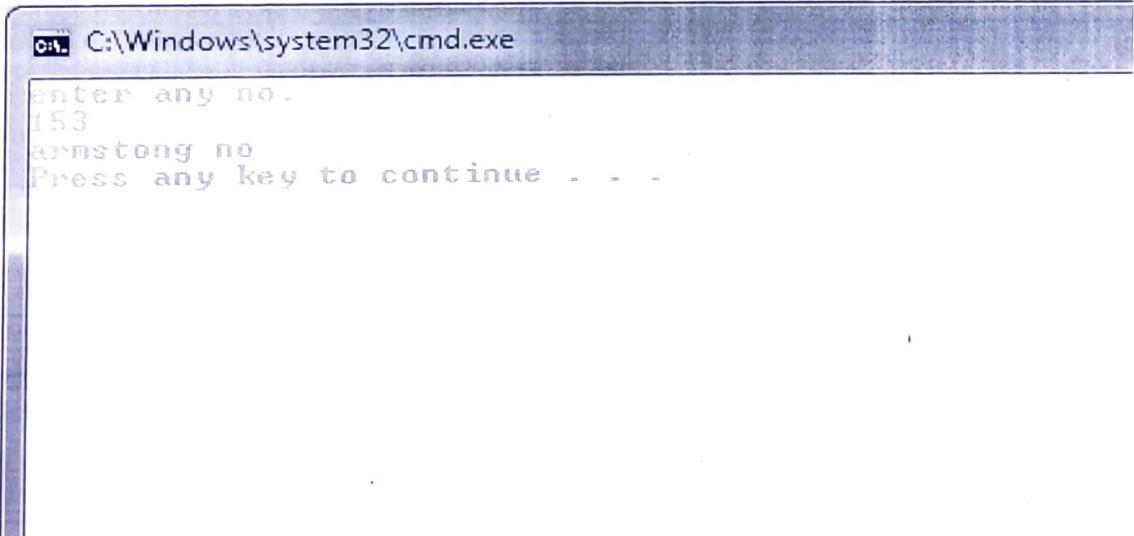
---

```
import java.io.*;
import java.lang.*;
class neon
{
private int a,n,c,s=0;
public void getdata()throws IOException
{
InputStreamReader isr=new InputStreamReader(System.in);
BufferedReader br=new BufferedReader(isr);
System.out.println("enter any no.");
n=Integer.parseInt(br.readLine());
}
public void putdata()
{
a=n*n;
while(a>0)
{
c=a%10;
a=a/10;
s=s+c;
}
if(s==n)
{
```



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```
{  
armstpl=new armst();  
pl.getdata();  
pl.putdata();  
}  
}  
  
OUTPUT:
```



C:\Windows\system32\cmd.exe

```
enter any no.  
153  
armstong no  
Press any key to continue . . .
```

Question: WAP to input any no. and print the neon no. or not

SOLU:

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---

```
}  
public void putdata()  
{  
p=n;  
while(n>0)  
{  
a=n%10;  
n=n/10;  
s=s+a*a*a;  
}  
if(s==p)  
{  
System.out.println("armstong no");  
}  
else  
{  
System.out.println("not armstong no");  
}  
}  
}  
}  
}  
}  
class arm  
{  
public static void main(String args[])throws IOException
```



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```
C:\Windows\system32\cmd.exe
Enter any no.
121
palindrom no
```

Question: WAP to input any no. and print the Armstrong no. or not

SOLU:

```
import java.io.*;
import java.lang.*;
classarmst
{
private int a,n,p,s=0;
public void getdata()throws IOException
{
InputStreamReader isr=new InputStreamReader(System.in);
BufferedReader br=new BufferedReader(isr);
System.out.println("enter any no.");
n=Integer.parseInt(br.readLine());
```



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---

```
}

if(p==r)

{

System.out.println("palindrom no");

}

else

{

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

}

}

}

}

class pal

{

public static void main(String args[])throws IOException

{

palinpl=new palin();

pl.getdata();

pl.putdata();

}

}

OUTPUT:
```



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---

Question: WAP to input any number print the palindrome no. or not

SOLU:

```
import java.io.*;
import java.lang.*;
classpalin
{
private int a,n,p,r=0;
public void getdata()throws IOException
{
InputStreamReader isr=new InputStreamReader(System.in);
BufferedReader br=new BufferedReader(isr);
System.out.println("enter any no.");
n=Integer.parseInt(br.readLine());
}
public void putdata()
{
p=n;
while(n>0)
{
a=n%10;
n=n/10;
r=r*10+a;
```



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```
{  
System.out.println("b is largest");  
}  
}  
}  
}  
}  
class lar  
{  
public static void main(String args[])throws IOException  
{  
larg l=new larg();  
l.input();  
l.output();  
}  
}  
}
```

OUTPUT:

```
C:\Windows\system32\cmd.exe  
enter two no  
18  
28  
b is largest  
Press any key to continue . . .
```



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---

Question: WAP to input two different no. and print the largest

SOLU:

```
import java.io.*;
import java.lang.*;
class larg
{
    private int a,b;
    public void input()throws IOException
    {
        InputStreamReader isr=new InputStreamReader(System.in);
        BufferedReader br=new BufferedReader(isr);
        System.out.println("enter two no");
        a=Integer.parseInt(br.readLine());
        b=Integer.parseInt(br.readLine());
    }
    public void output()
    {
        if(a>b)
        {
            System.out.println("a is largest");
        }
        else
```



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# JAVA