



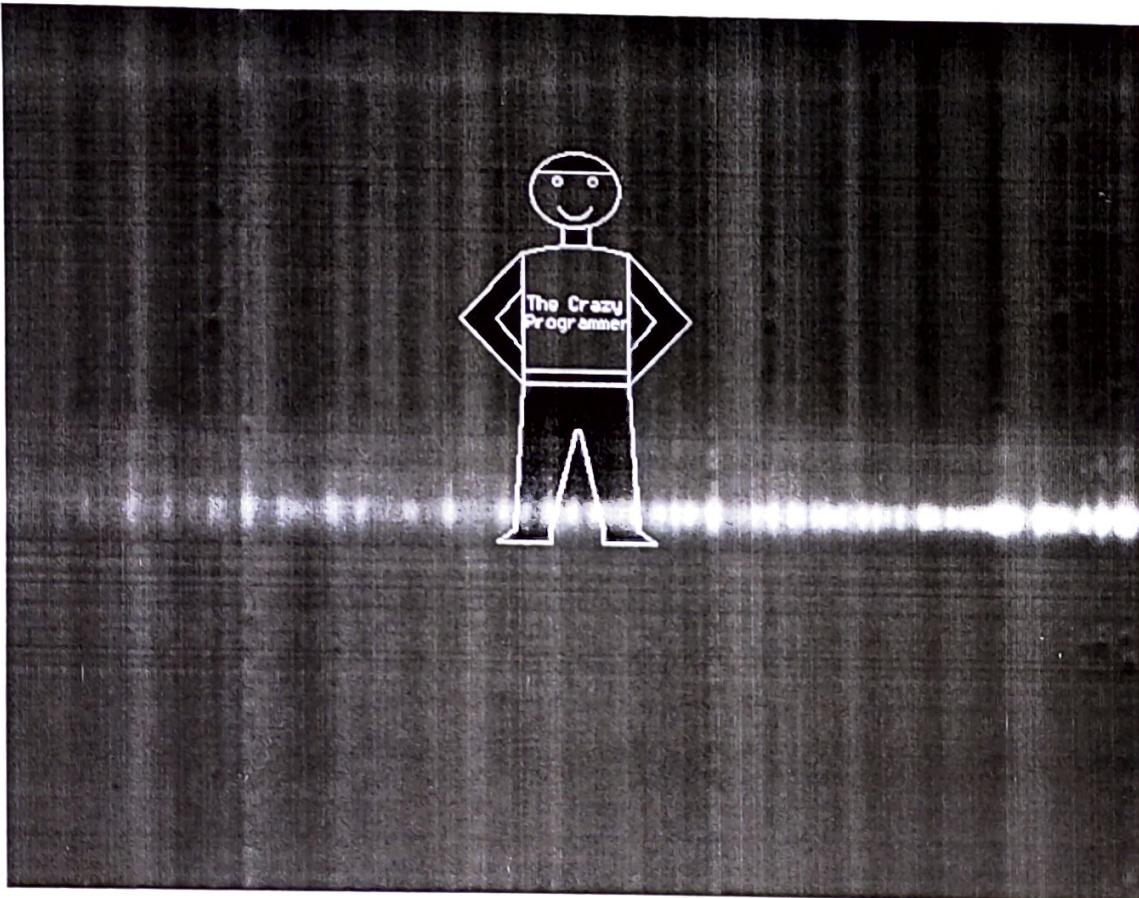
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---

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);
```

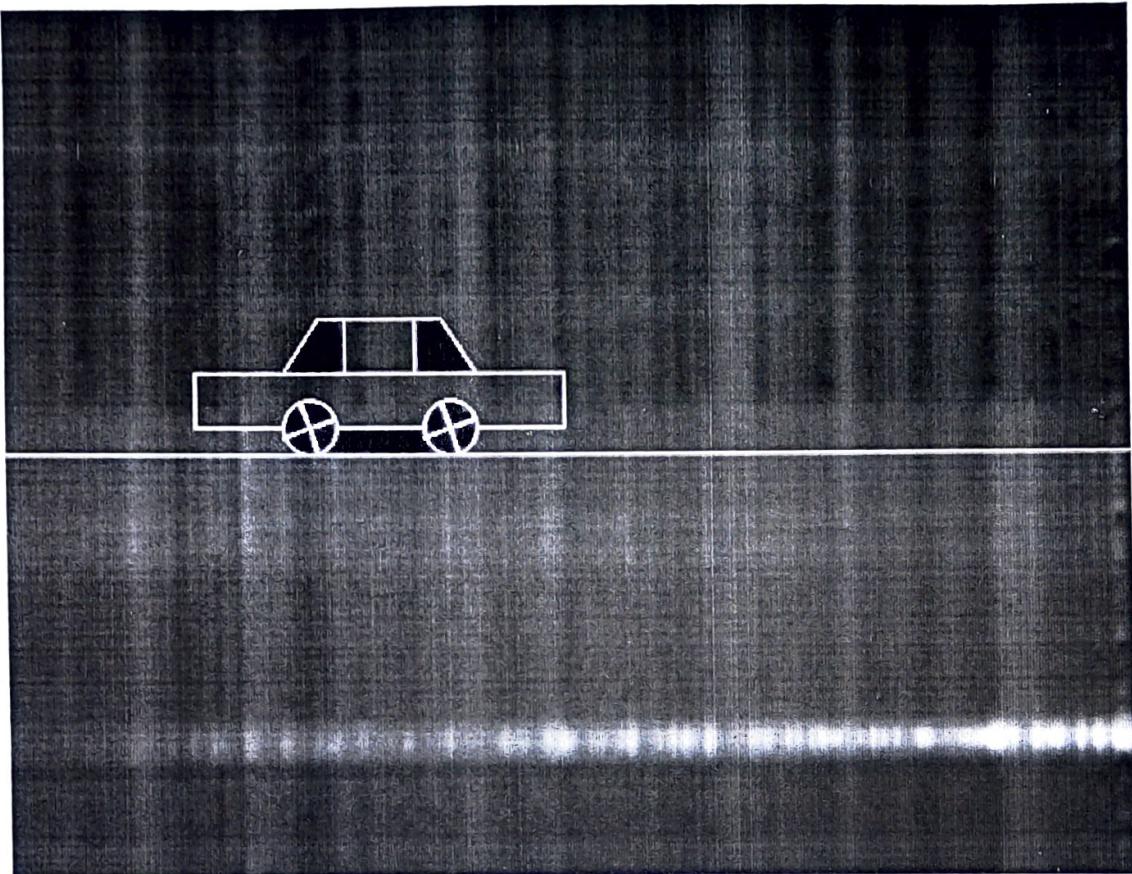
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---





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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**

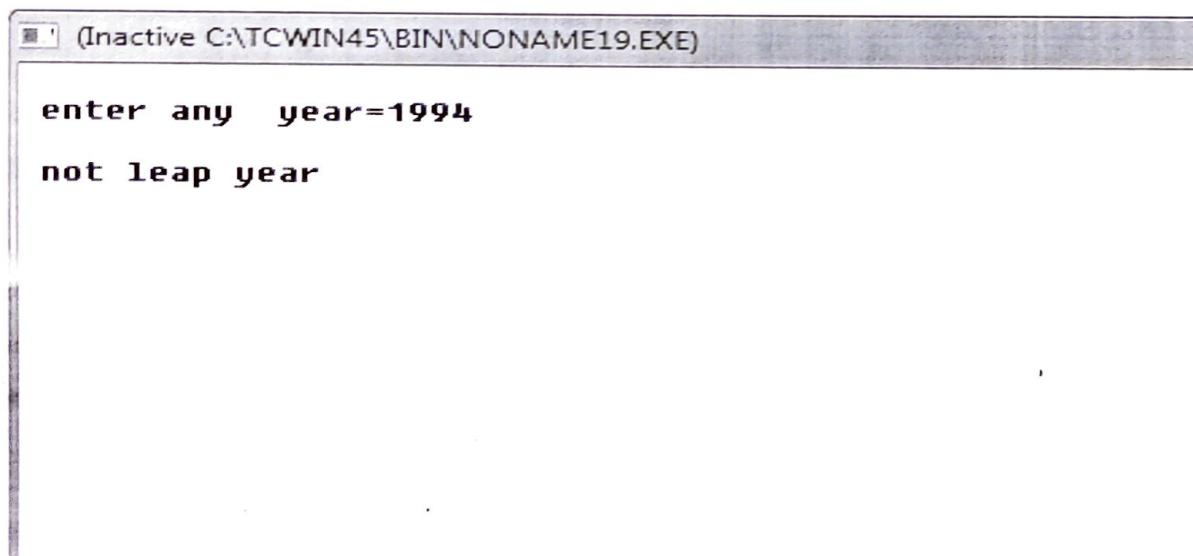


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---

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

OUTPUT:



A screenshot of a DOS terminal window titled '(Inactive C:\TCWIN45\BIN\NONAME19.EXE)'. The window displays the following text:  
**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:

```
(Inactive C:\TCWIN45\BIN\NONAME18.EXE)
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:

Odd Numbers	Even Numbers
9	5
8	5
7	5
6	5
5	5
4	5
3	5
2	2
1	

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

{
intf,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:**

A screenshot of a terminal window titled '(Inactive C:\TCWIN45\BIN\NONAME14.EXE)'. The window displays the following text:

```
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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```
[1] (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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---

■ (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:public a,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 a number";  
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:
```



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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:**

A screenshot of a Windows command-line interface window titled '(Inactive C:\TCWIN45\BIN\NONAME09.EXE)'. The window displays the following text:

```
enter a numbers  
120
```

The window has a standard blue header bar and a white body area where the text is displayed.



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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:
        int num;
        int f;
    public:
        void facto()
        {
            int i,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:

The screenshot shows a terminal window titled '(Inactive C:\TCWIN45\BIN\NONAME08.EXE)'. The window displays two lines of text: 'enter the no6' and 'Fibonacci=8768'. This indicates that the user input '6' was processed by the program to calculate the 6th Fibonacci number, which is 8.

```
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)
```

```
{
```

```
b=a;
```

```
n=0;
```

```
p=0;
```

```
)
```

```
armstrong()
```

```
{
```

```
n=b;
```

```
m=0;
```

```
p=n;
```



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

```
}
```

OUTPUT:

```
(Inactive C:\TCWIN45\BIN\NONAME05.EXE)
enter a number5
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?



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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:

```
intn,sum,c,d;
```

public:

```
table()
```

```
{
```

```
Sum=0;
```

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---

}

Void output()

{

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

Cout<<"\ 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;
```

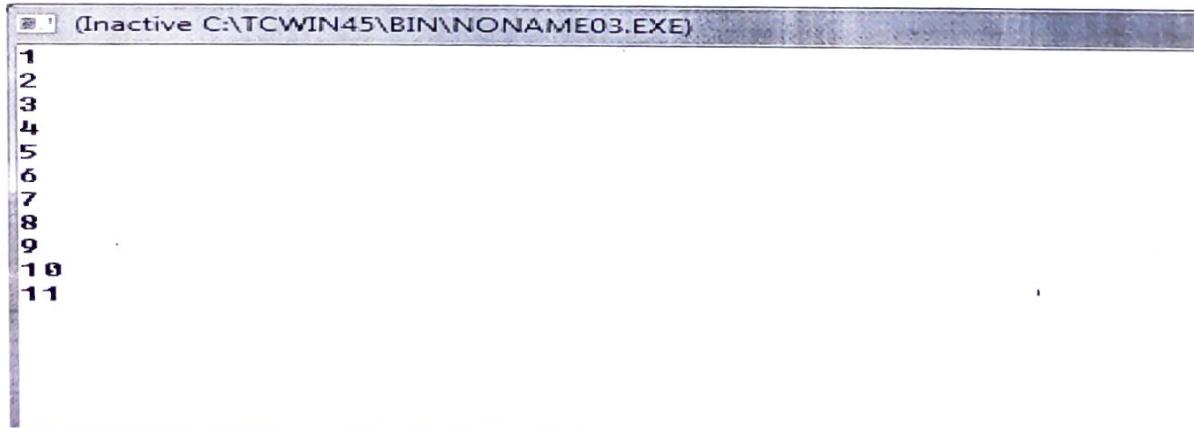


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---

```
)  
};  
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:
```

The screenshot shows a terminal window titled '(Inactive C:\TCWIN45\BIN\NONAME02.EXE)'. The window displays the following text:  
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 a

Number 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:\> C:\Windows\system32\cmd.exe
Enter n
10
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

Enter n

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:\> C:\Windows\system32\cmd.exe
C:\> n=9
If more cmd help to continue . . .
C:\>
```

Question: WAP to find the sum of series

S=1+2+3+-----+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);
```



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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 no : 123456789
Press any key to continue . . .
```

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

```
Administrator:~$  
Administrator:~$ 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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---

```
{  
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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```
C:\Windows\system32\cmd.exe
Enter your word for the pattern printing
WELCOME
W
E
L
C
O
M
E
P
R
E
S
S
A
N
Y
K
E
Y
T
O
C
O
N
T
I
N
U
E
.
```

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
{
InputStreamReaderisr=new InputStreamReader(System.in);
BufferedReaderbr=new BufferedReader(isr);
String st;
inta,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
Enter your word for the pattern printing
B
L
U
E
J
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:

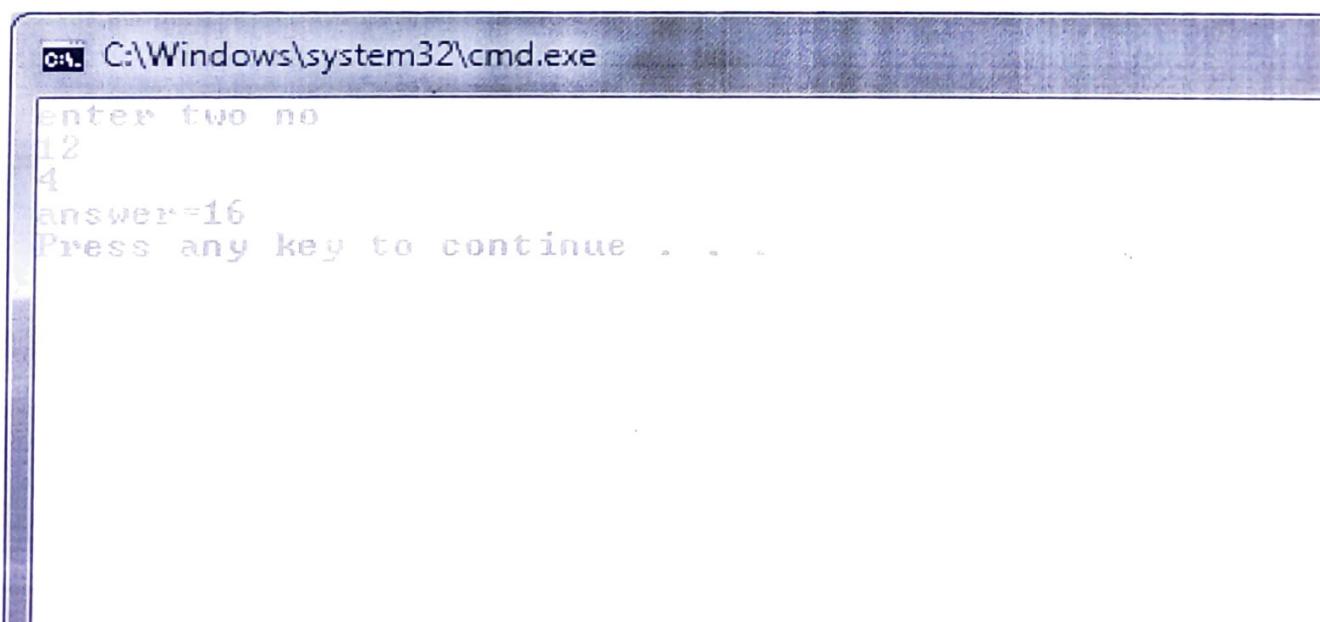
```
import java.io.*;
import java.lang.*;
class pattern
{
    public static void main(String args[])throws IOException
    {
        InputStreamReader isr=new InputStreamReader(System.in);
        BufferedReader br=new BufferedReader(isr);
        String wd;
        int a,y;
        System.out.println("enter 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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```
{  
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:

```
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.

- 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.  
6  
perfect no  
Press any key to 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:\> C:\Windows\system32\cmd.exe
```

```
enter any no.
```

```
3
```

```
neon 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  
armstrong 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.*;
class armst
{
    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

{

palimpl=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
{
InputStreamReaderisr=new InputStreamReader(System.in);
BufferedReaderbr=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:**

The screenshot shows a Windows command prompt window titled 'C:\Windows\system32\cmd.exe'. The user has entered the command 'java lar' and is prompted to enter two numbers. They type '18' and '28' respectively. The program then outputs 'b is largest' and asks the user to press any key to continue.

```
C:\Windows\system32\cmd.exe  
java lar  
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**