Object oriented programming with c++

30/08/2022

1.program about addition of two numbers using class and object

using namespace std;

#include<iostream>

class add

{

int x,y,z;

public:

void getdata();

void display();

};

void add :: getdata()

{

cout<<"enter x nad y values:";

cin>>x>>y;

}

void add :: display()

{

cout<<"sum of two numbers is:";

z=x+y;

cout<<z;

}

main()

{

add a;

a.getdata();

a.display();

}

output:enter x nad y values: 5 67

sum of two numbers is:72

--------------------------------

Process exited after 4.087 seconds with return value 0

Press any key to continue . . .

2.program about volume of the cone

//program about volume of the cone

using namespace std;

#include<iostream>

class volume

{

float r,h,v;

public:

void stokes()

{

cout<<"enter r nad h values:";

cin>>r>>h;

}

void root()

{

cout<<"volume of the cone is:";

v=0.3\*3.14\*r\*r\*h;

cout<<v;

}

};

int main()

{

volume x;

x.stokes();

x.root();

}

output:enter r nad h values:9 10

volume of the cone is:763.02

--------------------------------

Process exited after 3.83 seconds with return value 0

Press any key to continue . . .

3.program about to find the simple and compound interest

//program about simple and compound interest

using namespace std;

#include<iostream>

#include<math.h>

class interest

{

float p,s,c,n,r;

public:

void munro()

{

cout<<"enter the values of p,n and r:";

cin>>p>>n>>r;

}

void santnar()

{

cout<<"simple interest is:";

s=p\*n\*r/100;

cout<<s;

cout<<"\ncompound interest is:";

c=p\*pow((1+r/n),n);

cout<<c;

}};

main()

{

interest v;

v.munro();

v.santnar();

}

output:enter the values of p,n and r:10000 2 0.10

simple interest is:20

compound interest is:11025

--------------------------------

Process exited after 13.31 seconds with return value 0

Press any key to continue . . .

3.//program to find the biggest number among the three numbers using class and object

//program to find the biggest of three numbers using class and object

using namespace std;

#include<iostream>

class saveetha

{

int x,y,z;

public:

void rahul();

};

void saveetha :: rahul()

{

cout<<"enter three values:";

cin>>x>>y>>z;

if(int(x)&&int(y)&&int(z))

{

if(x>y&&x>z)

{

cout<<x<<"is biggest";

}

else if(y>z&&y>x)

{

cout<<y<<"is biggest";

}

else

{

cout<<z<<"is greatest";

}

}

else

{

cout<<"enter correct input";

}

}

main()

{

saveetha a;

a.rahul(); }

Output:

enter three values:56 78 96

96is greatest

--------------------------------

Process exited after 15.97 seconds with return value 0

Press any key to continue . . .

31/08/2022

1.program about pattern printing

#include<iostream>

using namespace std;

main()

{

int i,j;

for(i=0;i<=5;i++)

{

for(j=i;j<=5;j++)

{ cout<<j;

} cout<<'\n';

}

cout<<'\n';

}

output:012345

12345

2345

345

45

5

2.program about printing the pattern

#include<iostream>

using namespace std;

main()

{

int i,j;

for(i=1;i<=5;i++)

{

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

{

cout<<"\* ";

}

cout<<'\n';

}

}

Output:

\*

\* \*

\* \* \*

\* \* \* \*

\* \* \* \* \*

3.program about pattern printing

#include<iostream>

using namespace std;

main()

{

int x,y;

x=0;

y=1;

while(y<=100)

{

x+=y;

y++ ;

}

cout<<"sum of the 100 natural numbers is:"<<x<<endl;}

Output:

sum of the 100 natural numbers is:5050

4.program about palindrome

#include<iostream>

using namespace std;

main()

{

int n,num,digit,rev=0;

cout<<"enter the number:";

cin>>num;

n=num;

do{

digit=num%10;

rev=(rev\*10)+digit;

num=num/10;

}

while(num!=0);

{

cout<<"reverse of the nmuber is:"<<rev<<endl;

}

if(n==rev)

{

cout<<"the given number is palindrome";

}

else

{

cout<<"given number is not palindrome";

}

}

Output:

enter the number:12321

reverse of the nmuber is:12321

the given number is palindrome

--------------------------------

Process exited after 2.68 se

5.program about fibonacci series

#include<iostream>

using namespace std;

main()

{

int i,n,t1,t2,nextterm;

cout<<"enter nmuber of terms:";

cin>>n;

cout<<"Fabonnacci series:";

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

{ if(i==1)

{

cout<<t1<<", ";

continue;

}

if(i==2)

{

cout<<t2<<", ";

continue;

}

nextterm=t1+t2;

t1=t2;

t2=nextterm;

cout<<nextterm<<",";

}

return 0;

}

Output:

enter nmuber of terms:56

Fabonnacci series:1, 0, 1,1,2,3,5,8,13,21,34,55,89,144,233,377,610,987,1597,2584,4181,6765,10946,17711,28657,46368,75025,121393,196418,317811,514229,832040,1346269,2178309,3524578,5702887,9227465,14930352,24157817,39088169,63245986,102334155,165580141,267914296,433494437,701408733,1134903170,1836311903,-1323752223,512559680,-811192543,-298632863,-1109825406,-1408458269,1776683621,368225352,

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