**1.Print hello world**

#include <iostream>

using namespace std;

int main(){

cout<<"hello world";

}

**2.Sum of two values**

#include <iostream>

using namespace std;

int main(){

int a,b,sum;

cout<<"enter 1st value:";

cin>>a;

cout<<"enter 2nd value:";

cin>>b;

sum=a+b;

cout<<"sum of two values:"<<sum;

}

**3.Odd or eve**

#include <iostream>

using namespace std;

int main(){

int a;

cout<<"enter the number:";

cin>>a;

if(a%2==0){

cout<<"the number is even.";

}

else{

cout<<"the number is odd.";

}

}

**4.Greatest of 3 numbers**

#include <iostream>

using namespace std;

int main(){

int a,b,c;

cout<<"enter 1st number:";

cin>>a;

cout<<"enter 2nd number:";

cin>>b;

cout<<"enter 3rd number:";

cin>>c;

if((a>b)&&(a>c)){

cout<<a<<" "<<"is the greatest.";

}

else if((b>a)&&(b>c)){

cout<<b<<" "<<"is the greatest.";

}

else{

cout<<c<<" "<<"is the greatest.";

}

}

**5.(a)For Loop 1 to 10**

#include <iostream>

using namespace std;

int main(){

int i;

for(i=1;i<=10;i++){

cout<<i;

}

}

**5.(b)While loop 1 to 10**

#include <iostream>

using namespace std;

int main(){

int i=1;

while(i<=10){

cout<<i;

i++;

}

}

**5.(c)Do while loop 1 to 10**

#include <iostream>

using namespace std;

int main(){

int i=1;

do{

cout<<i;

i++;

}

while(i<=10);

}

**6.Same number row, pyramid**

#include <iostream>

using namespace std;

int main(){

int i,j,a;

cout<<"enter number of rows:";

cin>>a;

for(i=1;i<=a;i++){

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

cout<<i;

}

cout<<"\n";

}

}

**7.Same number row triangle**

#include <iostream>

using namespace std;

int main(){

int i,j,a;

cout<<"enter number of rows:";

cin>>a;

for(i=1;i<=a;i++){

for(j=1;j<=(a-i);j++){

cout<<" ";

}

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

cin>>i;

}

cout<<"\n";

}

}

**8.Swapping numbers**

#include <iostream>

using namespace std;

int main(){

int a,b;

cout<<"enter number:"

cin>>a>>b;

a=a+b;

b=a-b;

a=a-b;

cout<<a<<“,”<<b;

}

**9.Addition of numbers upto user given number**

#include <iostream>

using namespace std;

int main(){

int i,a,b=0;

cout"enter the number:";

cin>>a;

for(i=1;i<=a;i++){

b=b+i;

}

cout<<b;

}

**10.Volume of cylinder**

#include <iostream>

using namespace std;

int main(){

int A,r,h;

cout<<"enter the height of the cylinder:";

cin>>h;

cout<<"enter the radius of the cylinder:";

cin>>r;

A=2\*3.14\*r\*h;

cout<<A;

}

**11. + or -**

#include <iostream>

using namespace std;

int main(){

int a;

cout<<"enter the number:";

cin>>a;

if(a<0){

cout<<"the number is negative";

}

else{

cout<<"the number is positive";

}

}

**12.Weekday names using switch**

#include<iostream>

using namespace std;

int main() {

int a;

cout<<"1.Monday";

cout<<"\n2.Tuesday";

cout<<"\n3.Wednesday";

cout<<"\n4.Thursday";

cout<<"\n5.Friday";

cout<<"\n6.Saturday";

cout<<"\n7.Sunday";

cout<<"\nenter the number:";

cin>>a;

switch(a){

case 1:

cout<<"Monday";

break;

case 2:

cout<<"tuesday";

break;

case 3:

cout<<"Wednesday";

break;

case 4:

cout<<"Thurday";

break;

case 5:

cout<<"Friday";

break;

case 6:

cout<<"Saturday";

break;

case 7:

cout<<"sunday";

break;

default:

cout<<"enter appropriate number";

break;

}

}

**13.Sum of odd number upto n nums**

#include<iostream>

using namespace std;

int main() {

int i,n,sum=0;

cout<<"enter the last number:";

cin>>n;

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

if(i%2!=0){

sum=sum+i;

}

}

cout<<sum;

}

**14.Single inheritance**

#include<iostream>

using namespace std;

class Student{

public:

int rollno=1;

string name="Manas";

};

class Std\_details:public Student{

public:

int marks=90;

};

int main(){

Std\_details std1;

cout<<"Name: "<<std1.name<<"\n";

cout<<"Rollno: "<<std1.rollno<<"\n";

cout<<"Marks: "<<std1.marks<<"\n";

}

**15.Multilevel inheritance**

#include<iostream>

using namespace std;

class Student{

public:

int rollno=1;

string name="Manas";

};

class Std\_details:public Student{

public:

int marks=90;

};

class teacher:public Std\_details{

public:

string tname="Sarita";

};

int main(){

teacher std1;

cout<<"Name: "<<std1.name<<"\n";

cout<<"Rollno: "<<std1.rollno<<"\n";

cout<<"Marks: "<<std1.marks<<"\n";

cout<<"Teacher: "<<std1.tname;

}

**16.Multiple inheritance**

#include<iostream>

using namespace std;

class Student{

public:

int rollno=1;

string name="Manas";

};

class Std\_details{

public:

int marks=90;

};

class teacher:public Std\_details,public Student{

public:

string tname="Sarita";

};

int main(){

teacher std1;

cout<<"Name: "<<std1.name<<"\n";

cout<<"Rollno: "<<std1.rollno<<"\n";

cout<<"Marks: "<<std1.marks<<"\n";

cout<<"Teacher: "<<std1.tname;

}

**17.Hierarchical inheritance**

#include<iostream>

using namespace std;

class Student{

public:

int rollno=1;

string name="Manas";

};

class Std\_details:public Student{

public:

int marks=90;

};

class teacher:public Student{

public:

string tname="Sarita";

};

int main(){

Std\_details std1;

cout<<"Name: "<<std1.name<<"\n";

cout<<"Rollno: "<<std1.rollno<<"\n";

cout<<"Marks: "<<std1.marks<<"\n";

teacher t1;

cout<<"Name: "<<std1.name<<"\n";

cout<<"Rollno: "<<std1.rollno<<"\n";

cout<<t1.tname;

}