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#include<iostream>

using namespace std;

is common in all

**question 1**

int main(){

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

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

cout<<j;

}cout<<endl;

}return 0;

}

**Question 2**

int main(){

int n=1;

for(int i=1;i<=4;i++){

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

cout<<n;

}cout<<endl;

n=n\*2;

}

}

**Question 3**

int calculateSum() {

int pSum = 0;

for (int p = 1; p <= 50; ++p) {

bool isPrime = true;

if (p < 2) {

isPrime = false;

} else {

for (int i = 2; i \* i <= p; ++i) {

if (p % i == 0) {

isPrime = false;

break;

}

}

}

if (isPrime) {

pSum += p;

}

}

return pSum;

}

int main() {

cout << "Sum of prime numbers from 1 to 50: " << calculateSum() <<endl;

return 0;

}

**Question 1**

int main() {

int n ;

int a = 0, b = 1, c;

cout << "enter Fibonacci Sequence upto your choice";

cin>> n;

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

cout << a << " ";

c = a + b;

a = b;

b = c;

}

cout << endl;

return 0;

}

**Question 2 pascals triangle**

int main() {

int numRows;

cout << "Enter the number of rows for Pascal's Triangle: ";

cin >> numRows;

for (int i= 0; i<numRows; ++i) {

int coef = 1;

for (intspace =1;space<=numRows-i;++space) {

cout << " ";

}

for (intj= 0;j <=i;++j) {

if (j==0|| i== 0) {

coef = 1;

} else {

coef=coef\*(i - j + 1) / j;

}

cout<<coef << " ";

}

cout<< endl;

}

return 0;

}

}