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Q1: Write a program in C++ to find the first 10 natural numbers.

#include <iostream>

using namespace std;

int main(){

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

cout<< i << " ";

return 0;

}

Q2: Write a program in C++ to find the sum of first 10 natural numbers.

#include <iostream>

using namespace std;

int main(){

int sum;

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

sum = sum + i;

}

cout<< sum;

return 0;

}

Q3: Write a program in C++ to display n terms of natural number and their sum.

#include <iostream>

using namespace std;

int main(){

int sum;

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

sum = sum + i;

cout<< i <<" ";

}

cout<<"\nSum of Numbers: "<< sum;

return 0;

}

Q4: Write a program in C++ to check whether a number is prime or not.

#include <iostream>

using namespace std;

int main(){

int num, checker;

cout<<"Enter Number You want To Check: ";

cin>> num;

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

if(num % i == 0){

checker++;

}

}

if(checker == 2){

cout<<"This Number Is Prime!";

}else{

cout<<"This Not Prime Number!";

}

return 0;

}

Q5: Write a program in C++ to find the factorial of a number.

#include <iostream>

using namespace std;

int main(){

int num, res = 1;

cout<<"Enter Number: ";

cin>>num;

for(int i = num; i >= 1; i--){

res = res \* i;

}

cout<<"Factorial Is: "<< res;

return 0;

}

Q6: Write a program to calculate x power y.

#include <iostream>

using namespace std;

int main(){

int base, power, res = 1;

cout<<"Enter Base Number: ";

cin>>base;

cout<<"Enter Power Number: ";

cin>>power;

for(int i = power; i >= 1; i--){

res = res \* base;

}

cout<<"Your Number Is: "<< res;

return 0;

}

Q7: Write a program in C++ to find the Greatest Common Divisor (GCD) of two numbers.

#include <iostream>

using namespace std;

int main(){

int num1, num2, gcd;

cout<<"Enter Number 1: ";

cin>> num1;

cout<<"Enter Number 2: ";

cin>> num2;

if(num1 < num2){

int tmp;

tmp = num1;

num1 = num2;

num2 = tmp;

}

for(int i = 1; i <= num1; i++){

if(num1 % i == 0 && num2 % i == 0){

gcd = i;

}

}

cout<<"GCD Is: " << gcd << endl;

return 0;

}

Q8: Write a program in C++ to find the sum of digits of a given number.

#include <iostream>

using namespace std;

int main(){

int num, tmp, sum;

cout<<"Enter Your Number: ";

cin>> num;

while(num > 0){

tmp = num % 10;

sum = sum + tmp;

num = num / 10;

}

cout<<"Sum Of Digits: "<< sum << endl;

return 0;

}

Q7: Write a program in c++ to calculate fibonaci series of n number

#include <iostream>

using namespace std;

int main(){

int num1 = 0, num2 = 1, num3, num4;

cout<<"Enter Your Number: ";

cin>> num4;

cout<< num1 <<" "<< num2 <<" ";

for(int i = 2; i < num4; i++){

num3 = num1 + num2;

cout<< num3 << " ";

num1 = num2;

num2 = num3;

}

return 0;

}