#include<iostream>

Using namespace std;

Is common in all

**Question 1**

int main(){

int x;

cout<<"enter the value of x";

cin>> x;

if(x>10&&x<=20){

cout<<"1";

}else{

cout<<"0";

}

}

**Question 2**

int main(){

int x;

cout<<"enter the number";

cin>> x;

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

if(x%i==0){

cout<<i<<" ";

}

}

}

**Question 3**

the output is x is 5 and y is 10

**question 4**

int main() {

int userInput;

cout << "Enter a positive integer N: ";

cin >> userInput;

int largestPrime = 0;

int currentNum=userInput - 1;

while (currentNum > 1) {

bool isPrime = true;

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

if (currentNum % i == 0) {

isPrime = false;

break;

}

}

if (isPrime) {

largestPrime=currentNum;

break;

}

--currentNum;

}

if(largestPrime != 0) {

cout << "The largest prime number less than or equal to " << userInput << " is: " << largestPrime << endl;

}else {

cout << "There is no prime number less than or equal to " << userInput << endl;

}

return 0;

}

**question**

int main() {

int a, b;

cin >> a >> b;

int result=0,remainder=0;

while(a>=b) {

a -= b;

result++;

}

remainder=a;

cout<<result<< endl;

cout << remainder << endl;

return 0;

}

question

int main() {

int arr[8] = {1, 2, 3, 4, 5};

for (int i = 5; i < 8; ++i) {

cout<<"Enter eelements "<<i+1;

cin >> arr[i];

}

cout << "Elements of the array:" << endl;

for (int i = 0; i < 8; ++i) {

cout<<arr[i] << " ";

}

return 0;

}

**question**

int main()

{

int x[5];

int number = 0;

bool found = false;

cout << "Enter a number";

cin >> number;

cout << endl;

cout << "Enter the numbers of the array";

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

{

cin >> x[i];

}

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

{for (int j = 0; j < 5; j++)

{

for (int k = 0; k < 5; k++)

{

if (x[i] + x[j] + x[k] == number )

{

found = true;

}

}

}

}

if (!found)

{

cout << "Triplet not found" << endl;

}

else

{

cout << "Triplet found";

}

return 0;

}

**question**

int main() {

int arr[6] = {4, 2, 7, 1, 5, 3};

cout << "Original array";

for (int a = 0; a < 6; a++) {

cout << arr[a] << " ";

}

cout << endl;

for (int a = 0; a < 5; a++) {

for (int b = 0; b < 5 - a; b++) {

if (arr[b] > arr[b + 1]) {

int temp = arr[b];

arr[b] = arr[b + 1];

arr[b + 1] = temp;

}

}

}

cout << "Sorted array: ";

for (int a = 0; a < 6; a++) {

cout << arr[a] << " ";

}

cout << endl;

return 0;