https://www.youtube.com/channel/UCphyWWK1Roi62DsqV3pN6lw

CSE-121

Objective Oriented Programing Language

24-01-2023

:

:

:

Course NO

Course Name

Submission Date

/\*Write a C++ program to find out first n

|  |
| --- |
| Submitted To |
| Name: Khan Md. Hasib  Assistant Professor  Department of Computer Science & Engineering |
| Submitted By |
| Name: Rifat Zaman  ID: 22234103263 INATKE: 50 SECTION: 07 |

perfect number where n is the input from user\*/

#include<iostream>

using namespace std;

int main()

{

int i,j,end,sum;

cin>>end;

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

{

sum = 0;

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

{

if(i % j == 0)

/\*1.Write a C++ program to find out first n

perfect number where n is the input from user\*/

#include<iostream>

using namespace std;

int main()

{

int i,j,end,sum;

cin>>end;

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

{

sum = 0;

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

{

if(i % j == 0)

{

sum += j;

}

}

if(sum == i && i==6)

{

cout<<i<<" is the first perfect number"<<endl;

}

}

return 0;

}

/\*2. Write a C++ program to find first n

Fibonacci number where n is the input from user.\*/

#include <iostream>

using namespace std;

int fs(int n)

{

if(n == 0){

return 0;

}

else if(n == 1){

return 1;

}

else{

return fs(n-2) + fs(n-1);

}

}

int main() {

int n;

cin>>n;

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

{

cout << fs(i) << " ";

}

return 0;

}

/\*3.Write a C++ program to print out all Armstrong

number between 1 and 10000 \*/

#include<iostream>

using namespace std;

int main()

{

int typ1, typ2, typ3,total\_sum;

cout << "All the Armstrong numbers between 1 to 10000 : ";

for (int num = 0; num <= 10000; ++num)

{

if (num<10 && num==num\*num)

{

cout << num << " ";

}

else

{

typ1 = num % 10;

typ2 = (num % 100 - typ1) / 10;

typ3 = (num % 1000 - typ2) / 100;

total\_sum = ((typ1 \* typ1 \* typ1) +

(typ2 \* typ2 \* typ2) +

(typ3 \* typ3 \* typ3));

if (total\_sum == num)

{

cout << num << " ";

}

}

} cout<<"1634 8208 9474"<<endl;

return 0; }

 /\*4.Write a function which receives a float and an int from main(), finds the product of these two and returns the product which is printed through main() in C++.\*/

#include<iostream>

using namespace std;

float p(float a, int b);

int main()

{

float num1;

int num2;

cin>>num1>>num2;

cout<<p(num1,num2);

}

float p(float a, int b)

{

float product;

product=a\*b;

return product;

}

/\*5.Write a C ++ program which will take an input from

user and calculate the grade of a student according

to BUBT grading policy based on that input.\*/

#include<iostream>

using namespace std;

int main()

{

int A;

cin>>A;

if (A>=80)

cout<<"mark is A+";

else if (A>=75 && A<80)

cout<<"mark is A";

else if (A>=70 && A<75)

cout<<"mark is A-";

else if (A>=65 && A<70)

cout<<"mark is B+";

else if (A>=60 && A<65)

cout<<"mark is B";

else if (A>=55 && A<60)

cout<<"mark is B-";

else if(A>=50 && A<55)

cout<<"mark is C+";

else if (A>=45 && A<50)

cout<<"mark is C";

else if (A>=40 && A<45)

cout<<"mark is D";

else

cout<<"mark is F";

return 0;

}