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**ASSIGNMENT**

**Assignment no -**

Course NO CSE-112

Course Name Shuvo chakma

Submission Date 24/01/2023

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**Submitted To**

**Name: Khan Md. Hasib**

Assistant Professor

Department of Computer Science & Engineering

**Submitted By**

**Name:**

**ID: INATKE:**

**SECTION:**

Question: 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 n,i,sum=0;

cout<<"Enter your number:";

cin>>n;

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

if(n%i==0)

sum=sum+i;

if(sum==n)

cout<<n << " is a perfect number";

else

cout<<n <<" is not a perfect number";

return 0;

}

Question: Write a C++ program to find first n Fibonacci number where n is the input from user.

#include<iostream>

using namespace std;

int main(){

int n,i,a=0,b=1,c;

cout<<"Enter your number:";

cin>>n;

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

cout<<a<<"\n" ;

c=a+b;

a=b;

b=c;

}

return 0;

}

Question :Write a C++ program to print out all Armstrong numbers between 1 and 10000. If sum of cubes of each digit of the number is equal to the number itself, then the number is called an Armstrong number.

#include<iostream>

using namespace std;

int main(){

int n, arm=0,m,number;

cout<<"Enter your number:";

cin>>n;

number=n;

while(n>0){

m=n%10;

arm=(m\*m\*m)+arm;

n=n/10;

}

if(arm==number)

cout<<arm <<"is a armstrong number";

else

cout<<"this is not a armstrong number";

return 0;

}

Question: . 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;

int product(){

int x;

float y;

cout<<"Enter your integer number:";

cin>>x;

cout<<"Enter your float number:";

cin>>y;

float multification=(x\*y);

return multification;

}

int main(){

//function calling

cout<<product();

return 0;

}

OR

#include<iostream>

using namespace std;

void product(int x,float y){

float multification=(x\*y);

cout<<multification;

}

int main(){

//function calling

product(20,20.5);

}

Question: .BUBT grading policy is : (i) 80 % marks or above is A+ (ii) 75% to 79% marks is A (iii) 70% to 74% marks is A- (iv) 65% to 69% marks is B+ (v) 60% to 64% marks is B (vi) 55% to 59% marks is B- (vii) 50% to 54% marks is C+ (viii) 45% to 49% marks is C (ix) 40% to 44% marks is D (x) Below 40% is F 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 n;

cout<<"Enter your number:";

cin>>n;

if(n>=80)

cout<<"your grade is A+";

else if(75<=n&&n<=79)

cout<<"your grade is A";

else if(70<=n&&n<=74)

cout<<"your grade is A-";

else if(65<=n&&n<=69)

cout<<"your grade is B+";

else if(60<=n&&n<=64)

cout<<"your grade is B";

else if(55<=n&&n<=59)

cout<<"your grade is B-";

else if(50<=n&&n<=54)

cout<<"your grade is C+";

else if(45<=n&&n<=49)

cout<<"your grade is C";

else if(40<=n&&n<=44)

cout<<"your grade is D";

else

cout<<"your grade is F";

}Thank you