

Course NO : CSE-121

Course Name : Objective Oriented Programing Language

Submission Date: 24-01-2023

Submitted To

Name: Khan Md. Hasib

Assistant Professor
Department of Computer Science & Engineering

Submitted By

Name: Shoaib Al Mahmud

ID: 22234103249 INATKE: 50 SECTION: 07

```
/*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 product;
    product=a*b;
    return product;
}</pre>
```

/*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 \ge 80)
cout << "mark is A+";
else if (A>=75 && A<80)
cout << "mark is A";
else if (A \ge 70 \&\& A < 75)
cout << "mark is A-":
else if (A \ge 65 \&\& A < 70)
cout << "mark is B+";
else if (A \ge 60 \&\& A < 65)
cout << "mark is B";
else if (A>=55 && A<60)
cout << "mark is B-";
else if(A \ge 50 \&\& A < 55)
cout << "mark is C+";
else if (A>=45 && A<50)
cout << "mark is C";
else if (A \ge 40 \&\& A < 45)
cout << "mark is D";
else
cout << "mark is F";
return 0;
```