

# INSTITUTE OF INFORMATION TECHNOLOGY JAHANGIRNAGAR UNIVERSITY

**Number of Assignment: 01** 

**Submission Date** : 18/08/2020

**Course Tittle** : Numerical Analysis

**Course Code** : ICT - 2105

### **Submitted To**

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Professor

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# **Submitted By**

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Roll - 2023

2<sup>nd</sup> year 1<sup>st</sup> Semester

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# **Hand Writing Code**

```
Assignment-01: Write a Program to simulate Jo av dr
Find the area under curve for function.
  [a=3, b=9, n=3]
C++ code:
 # include Liostneam>
  using namespace stdi
 int main ()
   float a, b, c, Sum = 0.0;
   int n;
   cin >> a >> b >> n;
   C = (b-a)/n;
   while (n--)
      b = a+ci
     sum += ((a*a)*c);
      a=bi
   Cout << sum << " " << endl;
   return o;
                                    2020/8/18 10:49
```

#### **Code Blocks Code**

```
Assignment 01.cpp - Code::Blocks 17.12
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
 Start here X Assignment 01.cpp X 1.cpp X
        1
             #include<iostream>
        2
             using namespace std;
        3
        4
             int main()
        5
           □ {
        6
                   float a,b,c,sum=0.0;
        7
                   int n;
        8
        9
                   cin >> a >> b >> n;
      10
                   c = (b-a)/n;
      11
      12
                   while (n--)
      13
      14
                        b=a+c;
      15
                        sum += ((a*a)*c);
      16
                        a=b;
      17
      18
                   cout << sum << " " <<endl;
      19
                   return 0;
      20
             }
      21
```

#### **Output**

```
■ Select "D:\Programming Language\C++\Code\Nemerical Analysis\Assignment 01.ex... — ×

3 9 3
166

Process returned 0 (0x0) execution time : 6.100 s
Press any key to continue.
```