Nama: Yulia Indah Sulistyorini

Kelas : Prak BB

NIM : 15/384486/SV/08843

Simpsons

Source Code

```
#include <bits/stdc++.h>
using namespace std;
double xn, x0, h, jawab, genap = 0, ganjil = 0, awal, akhir;
double fx(double z){
    double e = 2.71828183;
    return pow(e, z);
double fungsi(double awal, double akhir, double genap, double ganjil, double h){
    double hasilFungsi = h/3 * (awal + (4*ganjil) + (2*genap) + akhir);
    return hasilFungsi;
}
int main(){
    cout << "Masukkan nilai X0 = ";
    cin >> x0;
    cout << "Masukkan nilai Xn = ";</pre>
    cin >> xn;
    cout << "Masukkan jumlah data = ";</pre>
    cin >> n;
    cout << endl;</pre>
h = (xn - x0)/n;
double x[n], f[n];
for(int i=0; i<=n; i++){
   x[i] = h * i;</pre>
     f[i] = fx(x[i]);
     if(i == 0){
         awal = f[i];
         cout << i << "\t";
         cout << f[i] << endl;</pre>
     else if(i == n){
         akhir = f[i];
cout << i << "\t";
         cout << f[i] << endl;</pre>
     else if(i % 2 == 0){
        genap = genap + f[i];
         cout << i << "\t";
         cout << genap << endl;</pre>
```

```
else if(i % 2 != 0){
        ganjil = ganjil + f[i];
        cout << i << "\t";
        cout << ganjil << endl;
}

cout << endl;
for(int i=0; i<=n; i++){
        jawab = fungsi(awal, akhir, genap, ganjil, h);
}
cout << "Hasil = " << jawab;</pre>
```

SS Hasil