Department of Information Systems and Technologies

CTIS151 – Introduction to Programming

SPRING 2023 – 2024

Extra Question # 05

Given a double value for y and odd power of the denominator called n, **compute z** from the following sequence. (**Do not forget to validate the value of y and oddness of the power**)

$$z = -\frac{2}{(y+1)^3} + \frac{4}{(y+1)^5} - \frac{6}{(y+1)^7} + \ldots\ldots\ldots - \frac{n-1}{(y+1)^n}$$

Project Name: EQ5
File Name: EQ5.cpp

Example Run #1:

```
Enter the value of y: -1
Enter the value of y: -2
Enter the value of n: 12
Enter the value of n: 11
The result is 6.000000
```

Example Run #2:

```
Enter the value of y: 2
Enter the value of n: 9
The result is -0.059950
```

Example Run #3:

```
Enter the value of y: 1
Enter the value of n: 5
The result is -0.125000
```