

Lab#7

Total marks: 10

Submission deadline: 19th April, 2020, Sunday till 11:59pm

Submission guidelines:

- Put all your .cpp files in a folder. Zip that folder and name it with your roll number.
- Email the zipped folder at natalia@pucit.edu.pk. You must put the **subject** of your email as:
"Lab#7"
- Students who are facing issues with their laptop or compiler can write the code on paper and send the screenshots, following the above guideline. Since your issue will be genuine therefore relaxation will be given accordingly. Don't worry!

You are required to design a Calculator. Take two numbers a and b as an input from the user. You need to implement the following functions:

1. double Add(double a, double b); $a+b$
2. double Subtract(double a, double b); $a-b$
3. double Divide(double a, double b); a/b
4. double Multiply(double a, double b); $a*b$
5. double takeMod(double a, double b); $a\%b$ or $a \bmod b$
6. double takePower(double a, double b); a^b
7. double takeSquareRoot(double a); \sqrt{a}
8. double takeSin(double a); $\sin(a)$
9. double takecos(double a); $\cos(a)$
10. double taketan(double a); $\tan(a)$

Take input of two numbers in main() and then ask the user which function he wants to call. Then call the respective functions E.g. if the user enters 3 then divide function will be called. Keep running the logic till the user enters a character other than 'y'. You can take input from the user in character for this purpose. You might need to include relevant c++ libraries to deal with mathematical functions.