Lab 3 - Expressions in C

1. Write a program to calculate the value $z = x^y$, for variables x and y of the type double. Hint: look up the function pow. ★

2. Divide 5 by 2 and print the result. First use the integer data type then the float data type. ★

3. Using conditional expressions, write a program which reads a real value for x and then computes the value for the function: ★★
$$f(x) = \begin{cases} x^2 - 7x + 4, & x < -2 \\ 0, & x = -2 \\ x^2 + 5x - 2, & x > -2 \end{cases}$$

4. Write a program that reads the value of an angle expressed in degrees and calculates the values for its sine, cosine and tangent ★★

References

- Pb. 1-9 [1]

[1] Iosif Ignat & Marius Joldoş. *CP Laboratory Guide 2: Standard I/O in C.*