31.1

implement main

open core, console

clauses

run():-

setConsoleTitle("Вычисление хэш-функции для строки"),

write("Введите строку: "),

InputString = readLine(),

HashValue = string::hash(InputString),

write("Значение хэш-функции = ", HashValue),

clearInput(),

\_ = readchar().

end implement main

goal

console::run(main::run).

31.2

implement main

open core, console

clauses

run():-

setConsoleTitle("Разделение строки на две равные части"),

write("Введите строку: "),

InputString = readLine(),

Length = string::length(InputString),

Count = Length div 2,

string::front(InputString, Count, FirstPart, LastPart),

setLocation(console\_native::coord(5,5)),

write("Исходная строка: \"", InputString, "\""),

setLocation(console\_native::coord(5,6)),

write("Длина строки: ", Length),

setLocation(console\_native::coord(5,7)),

write("Первая часть: \"", FirstPart, "\""),

setLocation(console\_native::coord(5,8)),

write("Вторая часть: \"", LastPart, "\""),

setLocation(console\_native::coord(5,10)),

write("Нажмите любую клавишу для выхода..."),

clearInput(),

\_ = readchar().

end implement main

goal

console::run(main::run).

31.3

implement main

open core, console

clauses

run():-

setConsoleTitle("Вычисление выражения max(A,B,C) - min(B,C)"),

write("Введите первое число A: "),

A = read(),

write("Введите второе число B: "),

B = read(),

write("Введите третье число C: "),

C = read(),

MaxABC = math::max(A, B, C),

MinBC = math::min(B, C),

Result = MaxABC - MinBC,

setLocation(console\_native::coord(5,8)),

write("A = ", A, ", B = ", B, ", C = ", C),

setLocation(console\_native::coord(5,9)),

write("max(A,B,C) = ", MaxABC),

setLocation(console\_native::coord(5,10)),

write("min(B,C) = ", MinBC),

setLocation(console\_native::coord(5,11)),

write("max(A,B,C) - min(B,C) = ", Result),

setLocation(console\_native::coord(5,13)),

write("Нажмите любую клавишу для выхода..."),

clearInput(),

\_ = readchar().

end implement main

goal

console::run(main::run).

31.4

implement main

open core, console

clauses

run():-

setConsoleTitle("Сумма числа со случайным числом"),

write("Введите число: "),

UserNumber = read(),

write("Введите диапазон для генерации случайного числа (N): "),

N = read(),

RandomNumber = math::random(N),

Sum = UserNumber + RandomNumber,

setLocation(console\_native::coord(5,7)),

write("Введенное число: ", UserNumber),

setLocation(console\_native::coord(5,8)),

write("Случайное число (0 ≤ X < ", N, "): ", RandomNumber),

setLocation(console\_native::coord(5,9)),

write("Сумма: ", UserNumber, " + ", RandomNumber, " = ", Sum),

setLocation(console\_native::coord(5,11)),

write("Нажмите любую клавишу для выхода..."),

clearInput(),

\_ = readchar().

end implement main

goal

console::run(main::run).

31.5

implement main

open core, console

clauses

run():-

setConsoleTitle("System Information"),

ComputerName = systemInformation\_api::getComputerName(),

write("\nComputer Name: ", ComputerName),

UserName = systemInformation\_api::getUserName(),

write("\nUser Name: ", UserName),

CodePage = console\_native::getConsoleCP(),

write("\nCode Page: ", CodePage),

Software = registry::getSubKeys(registry::currentUser(),"Software"),

write("\n\nSoftware:\n", Software), nl,

Hardware = registry::getAllValues(registry::localMachine(), "Hardware\\Description\\System"),

write("\n\nHardware:\n", Hardware),

Header = "SYSTEM INFORMATION\n==================\n",

CompInfo = string::concat("Computer Name: ", ComputerName, "\n"),

UserInfo = string::concat("User Name: ", UserName, "\n"),

CodeInfo = string::concat("Code Page: ", toString(CodePage), "\n\n"),

SoftInfo = string::concat("Software:\n", toString(Software), "\n\n"),

HardInfo = string::concat("Hardware:\n", toString(Hardware)),

Part1 = string::concat(Header, CompInfo),

Part2 = string::concat(UserInfo, CodeInfo),

Part3 = string::concat(SoftInfo, HardInfo),

FileContent = string::concat(Part1, Part2, Part3),

file::writeString("system\_info.txt", FileContent, false),

write("\n\nSystem information saved to system\_info.txt"),

\_ = readchar().

end implement main

goal

console::run(main::run).