Report 5

First set

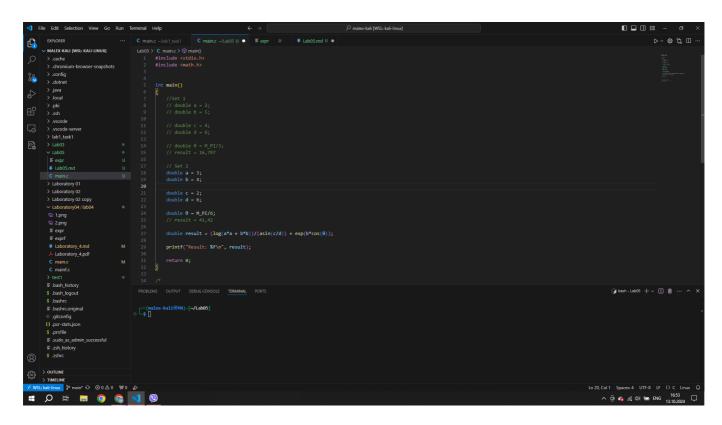
Programm with first set of data

GDB output

```
___(malex-kali@MA)-[~/Lab05]
└$ gcc -g -O0 main.c -o expr -lm
r—(malex-kali⊛MA)-[~/Lab05]
└$ gdb ./expr
GNU gdb (Debian 13.2-1+b2) 13.2
Copyright (C) 2023 Free Software Foundation, Inc.
License GPLv3+: GNU GPL version 3 or later http://gnu.org/licenses/gpl.html
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.
Type "show copying" and "show warranty" for details.
This GDB was configured as "x86 64-linux-gnu".
Type "show configuration" for configuration details.
For bug reporting instructions, please see:
https://www.gnu.org/software/gdb/bugs/.
Find the GDB manual and other documentation resources online at:
http://www.gnu.org/software/gdb/documentation/.
```

```
For help, type "help".
Type "apropos word" to search for commands related to "word"...
--Type for more, q to quit, c to continue without paging--c
Reading symbols from ./expr...
(gdb) b main
Breakpoint 1 at 0x1182: file main.c, line 8.
(gdb) r
Starting program: /home/malex-kali/Lab05/expr
[Thread debugging using libthread db enabled]
Using host libthread_db library "/lib/x86_64-linux-gnu/libthread_db.so.1".
Breakpoint 1, main () at main.c:8
8 double a = 2;
(gdb) n
9 double b = 5;
(gdb) n
11 double c = 4;
(gdb) n
12 double d = 6;
(gdb) n
14 double \theta = M_PI/3;
(gdb) n
16 double result = (\log(aa + bb))/(a\sin(c/d)) + \exp(b*\cos(\theta));
(gdb) n
18 printf("Result: %f\n", result);
(gdb) n
Result: 16.796950
20 return 0;
```

Second set

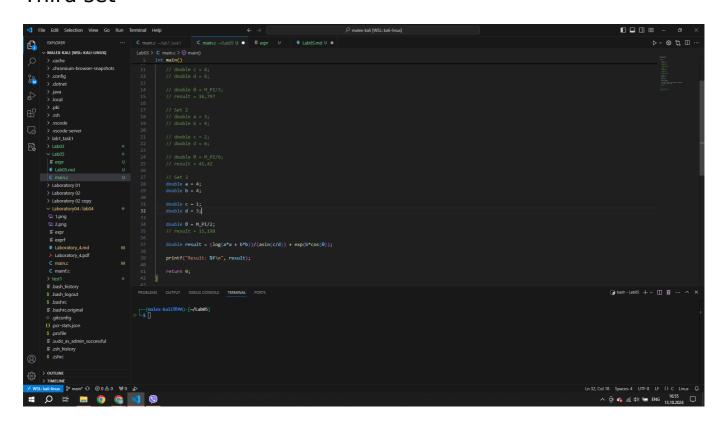


GDB output

```
└$ gcc -g -O0 main.c -o expr -lm
___(malex-kali
MA)-[~/Lab05]
└$ gdb ./expr
GNU gdb (Debian 13.2-1+b2) 13.2
Copyright (C) 2023 Free Software Foundation, Inc.
License GPLv3+: GNU GPL version 3 or later http://gnu.org/licenses/gpl.html
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.
Type "show copying" and "show warranty" for details.
This GDB was configured as "x86_64-linux-gnu".
Type "show configuration" for configuration details.
For bug reporting instructions, please see:
https://www.gnu.org/software/gdb/bugs/.
Find the GDB manual and other documentation resources online at:
http://www.gnu.org/software/gdb/documentation/.
--Type for more, q to quit, c to continue without paging--c
For help, type "help".
Type "apropos word" to search for commands related to "word"...
Reading symbols from ./expr...
(gdb) b main
Breakpoint 1 at 0x1182: file main.c, line 18.
(gdb) r
Starting program: /home/malex-kali/Lab05/expr
```

```
[Thread debugging using libthread db enabled]
Using host libthread_db library "/lib/x86_64-linux-gnu/libthread_db.so.1".
Breakpoint 1, main () at main.c:18
18 double a = 3;
(gdb) n
19 double b = 4;
(gdb) n
21 double c = 2;
(gdb) n
22 double d = 6;
(gdb) n
24 double \theta = M_PI/6;
(gdb) n
25 double result = (\log(aa + bb))/(a\sin(c/d)) + \exp(b*\cos(\theta));
(gdb) n
27 printf("Result: %f\n", result);
(gdb) n
Result: 41.419571
29 return 0;
```

Third set



GDB output

```
┌──(malex-kali⊛MA)-[~/Lab05]
└─$ gcc -g -O0 main.c -o expr -lm
```

```
r—(malex-kali⊛MA)-[~/Lab05]
└─$ qdb ./expr
GNU gdb (Debian 13.2-1+b2) 13.2
Copyright (C) 2023 Free Software Foundation, Inc.
License GPLv3+: GNU GPL version 3 or later http://gnu.org/licenses/gpl.html
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.
Type "show copying" and "show warranty" for details.
This GDB was configured as "x86 64-linux-gnu".
Type "show configuration" for configuration details.
For bug reporting instructions, please see:
https://www.gnu.org/software/gdb/bugs/.
Find the GDB manual and other documentation resources online at:
http://www.gnu.org/software/gdb/documentation/.
--Type for more, q to quit, c to continue without paging--c
For help, type "help".
Type "apropos word" to search for commands related to "word"...
Reading symbols from ./expr...
(gdb) b main
Breakpoint 1 at 0x1182: file main.c, line 28.
(gdb) r
Starting program: /home/malex-kali/Lab05/expr
[Thread debugging using libthread db enabled]
Using host libthread db library "/lib/x86 64-linux-gnu/libthread db.so.1".
Breakpoint 1, main () at main.c:28
28 double a = 4;
(qdb) n
29 double b = 4;
(qdb) n
31 double c = 1;
(qdb) n
32 \text{ double d} = 3;
(gdb) n
34 double \theta = M_PI/2;
(gdb) n
37 double result = (\log(aa + bb))/(a\sin(c/d)) + \exp(b*\cos(\theta));
(qdb) n
39 printf("Result: %f\n", result);
(qdb) n
Result: 11.198233
41 return 0;
```