Part 1:

```
circle.cpp:11:58: error: no match for 'operator<' (operand types are 'std::basic
ostream<char>' and '<unresolved overloaded function type>')
 cout<<"This Program computes various metrics of a circle"<endl;//Notify the use
of what this program does
In file included from /usr/include/c++/8/bits/stl_algobase.h:64,
                  from /usr/include/c++/8/bits/char traits.h:39,
                  from /usr/include/c++/8/ios:40,
                  from /usr/include/c++/8/ostream:38,
                  from /usr/include/c++/8/iostream:39,
                  from circle.cpp:1:
/usr/include/c++/8/bits/stl pair.h:454:5: note: candidate: 'template<class Tl,
class T2> constexpr bool std::operator<(const std::pair< T1, T2>&, const std::
pair< T1, T2>&)'
circle.cpp: In function 'int main()':
circle.cpp:13:6: error: 'users_radus' was not declared in this scope
circle.cpp:13:6: note: suggested alternative: 'users radius'
 cin>>users radus;
circle.cpp: 17:42: error: request for member 'compute area' in 'first circle', wh
ich is of pointer type 'Circle*' (maybe you meant to use '->' ?)

cout<<"Area of circle is:"<<first_circle.compute_area()<<endl;//calculate the a
rea using comput area and give results to the user
circle.cpp:18:83: error: no match for 'operator<<' (operand types are 'std::basi
c ostream<char>:: ostream type' {aka `std::basic ostream<char>'} and `<unresolv
ed overloaded function type>')
cumference of the circle is: "<<first circle->compute circumference()<<end;// ca
lculate the circumference and give the results to the user
```

```
/usr/include/c++/8/istream:980:5: note: template argument deduction/substitution failed:
/usr/include/c++/8/istream: In substitution of 'template<class _ Istream, class _ Tp> typename std::enable_if<std::_and_basic_istream</td>

/usr/include/c++/8/istream: In substitution of 'template<class _ Istream, class _ Tp> typename std::enable_if<std::_and_basic_istream</td>

/usr/include/c++/8/istream

/usr/include/c+-/8/istream

/usr/include/c+-/8/istream<
```

```
[alsahori@csdept ~]$ g++ circle.cpp -o executable.exe
[alsahori@csdept ~]$ D
```

(Part 2: below)

```
Last login: Tue Feb 28 19:35:57 2023 from 172.18.17.135
[alsahori@csdept ~]$ g++ circle.cpp -o executable_name -g [alsahori@csdept ~]$ gdb executable_name
GNU gdb (GDB) Red Hat Enterprise Linux 8.2-19.el8
Copyright (C) 2018 Free Software Foundation, Inc.
License GPLv3+: GNU GPL version 3 or later <a href="http://gnu.org/licenses/gpl.html">http://gnu.org/licenses/gpl.html</a>
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-redhat-linux-gnu".
Type "show configuration" for configuration details.
For bug reporting instructions, please see:
<http://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"...
Reading symbols from executable name...done.
(gdb) start
Temporary breakpoint 1 at 0x400b11: file circle.cpp, line 9.
Starting program: /home/alsahori/executable name
Temporary breakpoint 1, main () at circle.cpp:9
        first circle = new Circle();// allocate memory for the object and call the constructo
Missing separate debuginfos, use: yum debuginfo-install glibc-2.28-224.el8.x86 64 libgcc-8.5.
0-17.el8.x86 64 libstdc++-8.5.0-17.el8.x86 64
(gdb) continue
This Program computes various metrics of a circle
Please enter the radius of the circle:4
Program received signal SIGSEGV, Segmentation fault.
Circle::compute area (this=0x614eb0) at circle.h:16
                 {*area = (pi*pow(radius, 2.0)); return *area;};
(qdb)
```

This Program computes various metrics of a circle Please enter the radius of the circle:4
Area of circle is:50.264
The circumference of the circle is:25.132
[Inferior 1 (process 2270083) exited normally]