Practical-9.(b)

Aim: Write a C++ program to implement the exception handling with rethrowing in Exception.

Algorithm: (i) Start

(ii) Try block(statement that causes exception)

(iii) Catch block(statement that handles exception)

(iv) Stop

Theory: In C++, Exception handling is the special process of reacting to the appearance, while computation.

Program:

```cpp
#include <iostream>
void divide(double x,double y)
{
   std::cout<<"Inside Function\n";
   try
   {
      if(y==0.0)
      throw y;
      else
      std::cout<<"Division="<<x/y<<"\n";
```

```cpp
        }
        catch(double)
        {
            std::cout<<"Caught double inside function\n";
            throw;
        }
        std::cout<<"End of Function\n";
}
int main(){
    std::cout<<"08_Rabin Nadar"<<std::endl;
    std::cout<<"Inside Main\n";
    try
    {
        divide(10.5,2.0);
        divide(20.0,0.0);
    }
    catch(double)
    {
        std::cout<<"Caught double inside main\n";
    }
    std::cout<<"End of Main\n";
```

```
    return 0;

}
```

Output:

```
Output

/tmp/mDVwmbo7bx.o
08_Rabin Nadar
Inside Main
Inside Function
Division=5.25
End of Function
Inside Function
Caught double inside function
Caught double inside main
End of Main
```

Conclusion:

We have successfully written the code and executed it.