

Practical-8.(a)

Aim:Write a C++ program to show conversion from string to int and vice-versa.

Algorithm:(i)Start

(ii)string to int

(iii)int to string

(iv)Print the result

(v)Stop

Theory:In this practical,we will see,how to convert string to int and int to string in C++

Program:

String to int

```
// C++ program to demonstrate the
// use of a stringstream to
// convert string to int
#include <iostream>
#include <sstream>
using namespace std;
int main()
{
    std::cout<<"08_Rabin Nadar"<<std::endl;
```

```
string s = "12345";  
// object from the class stringstream  
stringstream geek(s);  
// The object has the value 12345 and stream  
// it to the integer x  
int x = 0;  
geek >> x;  
// Now the variable x holds the value 12345  
cout << "Value of x : " << x;  
return 0;  
}
```

Output:

A screenshot of a terminal window with a light gray background. The title bar at the top shows a small orange icon on the left and a blue icon on the right. The terminal text is as follows:

```
Output  
/tmp/W0hBl50yAQ.o  
08_Rabin Nadar  
Value of x : 12345|
```

Int to string

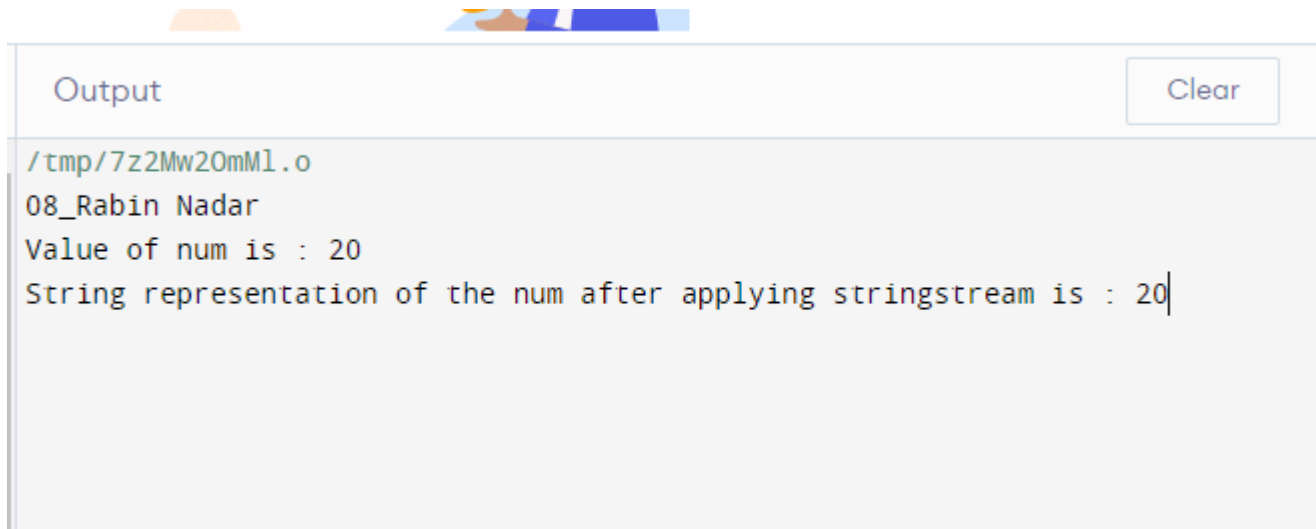
Program:

```
#include <iostream>  
#include <sstream> // header file for stringstream
```

```
using namespace std;

int main()
{
    std::cout<<"08_Rabin Nadar";
    // initialize an integer
    int num = 20;
    // applying the stringstream class
    // declare a stream object
    stringstream stream;
    stream << num;
    // initializing a string
    string str;
    stream >> str;
    cout << "\n"
        << "Value of num is : " << num << "\n";
    cout << "String representation of the num after
    applying stringstream is : " << str;
    return 0;
}
```

Output:

A screenshot of a C++ IDE's output window. The window has a title bar with the word "Output" on the left and a "Clear" button on the right. The output area contains the following text: a file path, a name, a value, and a string representation of that value.

```
/tmp/7z2Mw2OmM1.o
08_Rabin Nadar
Value of num is : 20
String representation of the num after applying stringstream is : 20|
```

Conclusion:

We have successfully written the codes and executed it.