Experiment Number

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Branch ::	CSE - IoT	Sec/Grp ::	1/A
Semester ::	5th	Date ::	18th Aug, 2021
Subject ::	Adv Programming Lab	CODE ::	CSP-347

1. Aim :

WAP that uses a function template called maximum to determine the larger of two arguments. Test the program using integer, character and floating-point number arguments.

2. Task :

Make a template funtion to compute maximum between two arguments passed to it.

3. Algorithm :

1. Make a template function

2. Compute maximum

3. Test function with three data types

   (a) int
   (b) float
   (c) char

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4. Steps / Source Code :

```cpp
#include <bits/stdc++.h>

template <typename T>
T maximum(T a, T b)
{
    return a > b ? a : b;
}

int main()
{
    std :: cout << "Maximum between 73 and 37 is ::\t\t"
              << maximum(73, 37) << std :: endl;

    std :: cout << "Maximum between 2.5 and 1.5 is ::\t"
              << maximum(2.5, 1.5) << std :: endl;

    std :: cout << "Maximum between 'a' and 'b' is ::\t"
              << maximum('a', 'b') << std :: endl;

    return 0;
}
```
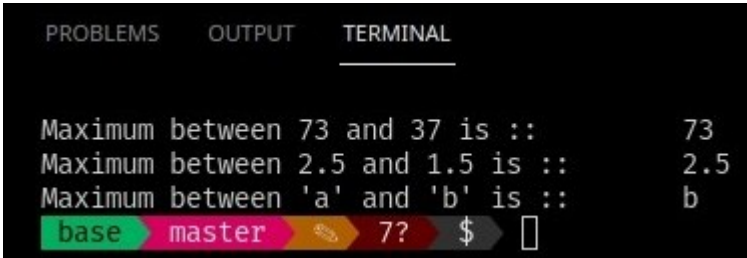
5. Observations :

Following code executes without any error and code duplication.

6. Result :

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Learning Outcomes :

- C++ templates

- STL library

S. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			