## PROGRAM-22

AIM: Write a program to illustrate how Template function can be overloaded.

## CODE:

```
#include <iostream>
using namespace std;
template <typename T>
void swapItems(T &a, T &b) {
  T temp = a;
  a = b;
  b = temp;
template <typename T, size t N>
void swapItems(T (&arr1)[N], T (&arr2)[N]) {
  for (size_t i = 0; i < N; ++i) {
    swapItems(arr1[i], arr2[i]);
  }
}
int main() {
  int int1 = 5, int2 = 10;
  float float 1 = 3.5, float 2 = 7.2;
  char char1 = 'A', char2 = 'B';
  swapItems(int1, int2);
  swapItems(float1, float2);
  swapItems(char1, char2);
  cout << "Swapped integers: " << int1 << " " << int2 << endl;</pre>
  cout << "Swapped floats: " << float1 << " " << float2 << endl;</pre>
  cout << "Swapped characters: " << char1 << " " << char2 <<endl;</pre>
return 0; }
```