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SOURCE CODE AND RAM DIAGRAM DISECTION OF THE ASSIGNMENT 1 C++ PROGRAM

```
// Approach 1 --> With user input
#include<iostream>
using namespace std;
int main(){
   int num1,num2,num3,total;
   cout<<"Enter the first number : ";</pre>
   cin>>num1;
   cout<<"Enter the second number : ";</pre>
    cin>>num2;
   cout<<"Enter the third number : ";</pre>
   cin>>num3;
   total = num1 + num2 + num3;
    cout<<"The sum of the two numbers is : "<<total<<endl;</pre>
   return 0;
// approach 2 --> without user input
#include<iostream>
using namespace std;
int main(){
   int num1, num2, num3,result;
   num1 = 5;
   num2 = 8;
   num3 = 7;
   result = num1 + num2 + num3;
   cout<<"The total of 3 numbers is : "<<result<<endl;</pre>
```

}

}

1

RAM

FREE

FREE

FREE

FREE

FREE

FREE

FREE

FREE

State of the RAM before declaring any variable within the program

RAM

RESERVED

RESERVED

RESERVED

RESERVED

Num hum2

HUIIIZ

num3

result

FREE

. . . _ _

FREE

FREE

FREE

The state of RAM when the variables "num1","num2", "num3" and results are declared.

RAM

num1

num2

num3

result

RESERVED

RESERVED

RESERVED

RESERVED

FREE

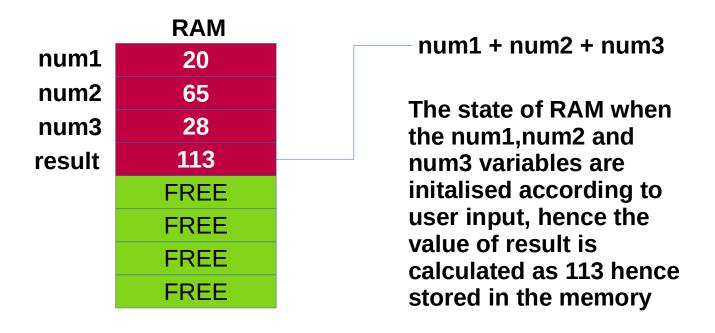
FREE

FREE

FREE

num1 + num2 + num3

The state of RAM when the variable results is initialised as: num1 + num2 + num3.



On ource code Approach 2

