Example Code of calling C++ functions from Assembly Example:

```
.686
                  ;Target processor. Use instructions for Pentium class machines
.MODEL FLAT, C
                  ;Use the flat memory model. Use C calling conventions
;INCLUDE Irvine32.inc
.STACK 2048
                  ;Define a stack segment of 1KB (Not required for this example)
askForInteger PROTO C
showInt PROTO C, value:SDWORD, outWidth:DWORD
OUT WIDTH = 8
ENDING_POWER = 10
.data
intVal DWORD ?
.CODE
                  ;Indicates the start of a code segment.
clear PROC
xor eax, eax
xor ebx, ebx
INVOKE askForInteger ; call C++ function
mov intVal, eax; save the integer
mov ecx, ENDING POWER; loop counter
L1:
push ecx; save loop counter
shl intVal,1; multiply by 2
INVOKE showInt, intVal,OUT_WIDTH
pop ecx; restore loop counter
loop L1
ret
clear ENDP
END
Cpp
#include "stdio.h"
#include <iostream>
#include <iomanip>
using namespace std;
// extern "C" instruct the compiler to use C calling conventions
extern"C" {
       void clear();
       int askForInteger();
       void showInt(int value, int width);
}
int main()
       clear( );
```

```
return 0;
}
int askForInteger()
{
int n;
cout << "Enter an integer between 1 and 90,000:";
cin >> n;
return n;
}
// Display a signed integer with a specified width.
void showInt( int value, int width )
{
cout << width
cout << value;
}</pre>
```