**A. Passing By Value (func\_calc.c)**

**main**  answer = add(num1, num2); **add**

|  |  |  |
| --- | --- | --- |
| num1 | num2 | answer |
| 111 |  |  |
|  | 222 |  |
|  |  | 333 |

|  |  |  |
| --- | --- | --- |
| a | b | sum |
| 111 |  |  |
|  | 222 |  |
|  |  | 333 |

**B. Passing By Address (func\_pointer.c)**

**main**  add( **&totalValue**, bonus) ; **add**

|  |  |
| --- | --- |
| bonus | totalValue |
| 555 |  |
|  | 1000 |
|  | 1555 |

|  |  |
| --- | --- |
| pTotal | amount |
|  |  |
|  | 555 |
|  |  |

void add( **int\* pTotal**, int amount );

**C. Array Parameter (func\_array.c)**

**main** show( **scores** ) ;

scores

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 100 | 89 | 75 | 64 | 55 |

void show( **int list [ ]** );

- **list:** a) It is an array parameter (NOT AN ARRAY) in the function *show( )*.

b) It holds the memory address of scores[0] (“the memory address of the array”)!

c) It is **a pointer** to the actual array in the main program!