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Homework-01

Q2

```
/* Addition program */
#include <stdio.h>

/* function main begins program execution */
int main(void)
{
   int integer1; /* first number to be input by user  */
   int integer2; /* second number to be input by user */
   int sum;     /* variable in which sum will be stored */
   printf( "Enter first integer\n" ); /* prompt */
   scanf( "%d", &integer1 );       /* read an integer */
   printf( "Enter second integer\n" ); /* prompt */
   scanf( "%d", &integer2 );         /* read an integer */
   sum = integer1 + integer2; /* assign total to sum */
   printf( "Sum is %d\n", sum ); /* print sum */
   return 0; /* indicate that program ended successfully */
} /* end function main */
```

Q3

```
#include <stdio.h>
int main() {
    int popularity, size;
    long int homeValue;
    printf("Enter popularity: ");
    scanf("%d", &popularity);
    printf("Enter size: ");
    scanf("%d", &size);
    homeValue = ((popularity*popularity*popularity) + (size*size)) * 10000;
    printf("Home value is: %ld\n", homeValue);
    return 0;
}
```

Q4

```
#include <stdio.h>

// for (a)

int computeHomeValueA(int popularity, int size);

// for (b)

void computeHomeValueB(void);

int main() {

   int popularity, size;

   long int homeValue;

   printf("Enter popularity: ");

   scanf("%d", &popularity);

   printf("Enter size: ");

   scanf("%d", &size);

   homeValue = computeHomeValueA(popularity, size);

   printf("Home value is: %ld\n", homeValue);

   computeHomeValueB();

   return 0;

}

// for (a)

int computeHomeValueA(int popularity, int size) {

   return ((popularity*popularity*popularity) + (size*size)) * 10000;

}

// for (b)

void computeHomeValueB(void) {

   int popularity, size;

   long int homeValue;

   printf("Enter popularity: ");

   scanf("%d", &popularity);

   printf("Enter size: ");

   scanf("%d", &size);

   homeValue = ((popularity*popularity*popularity) + (size*size)) * 10000;

   printf("Home value is: %ld\n", homeValue);

}
```