## C Programming Review Sample Answers

```
Question 1
```

return 0;

```
#include <stdio.h>
int main(void) {
      int num1, num2;
      printf("Enter the first integer: ");
      scanf("%d", &num1);
      printf("Enter the second integer: ");
      scanf("%d", &num2);
      if(num1 >= 0 \&\& num2 >= 0) {
            printf("The integers %d and %d are both positiven", num1, num2);
      } else {
            printf("The integers %d and %d are not both positive\n", num1, num2);
      return 0;
}
Question 2
#include <stdio.h>
float abs(float num) {
      if(num < 0.0) {
            return -num;
      } else {
           return num;
int main(void) {
      float num;
      printf("Enter a floating-point number: ");
      scanf("%f", &num);
      printf("The absolute value of %f is %f\n", num, abs(num));
      return 0;
}
Question 3
#include <stdio.h>
int main(void) {
      int start, end, i;
      printf("Enter the start integer: ");
      scanf("%d", &start);
      printf("Enter the end integer: ");
      scanf("%d", &end);
      for(i = start; i <= end; i++) {
            printf("%d ", i);
      printf("\n");
```

}

## **Question 4**

```
#include <stdio.h>
int main(void) {
      int n, i;
      float f;
      float prod = 1.0;
      printf("How many floating point numbers do you want to multiply together: ");
      scanf("%d", &n);
      for(i = 0; i < n; i++) {
            printf("Enter a floating point number: ");
            scanf("%f", &f);
            prod *= f;
      printf("The product is %f\n", prod);
      return 0;
}
Question 5
#include <stdio.h>
#define SIZE 5
void array abs(float a[SIZE]) {
      int i;
      for(i = 0; i < SIZE; i++) {
            if(a[i] < 0) {
                  a[i] = -a[i];
            }
      }
}
int main(void) {
      float nums[SIZE];
      int i;
      for(i = 0; i < SIZE; i++) {
            printf("Enter a floating point number: ");
            scanf("%f", &nums[i]);
      }
      array_abs(nums);
      printf("The result is:");
      for(i = 0; i < SIZE; i++) {</pre>
            printf(" %f", nums[i]);
      printf("\n");
      return 0;
}
```

## **Question 6**

#include <stdio.h>

```
#define MONTHS 12
int main(void) {
      int day;
      int month;
      int days_in_month[MONTHS] = {31, 28, 31, 30, 31, 30, 31, 30, 31, 30, 31};
      int total_days = 0;
      do {
            printf("Enter the month: ");
            scanf("%d", &month);
      } while (month < 1 || month > MONTHS);
      do {
            printf("Enter the day: ");
            scanf("%d", &day);
      } while(day < 1 || day > days_in_month[month - 1]);
      for(i = 0; i < month - 1; i++) {</pre>
            total_days += days_in_month[i];
      total_days += day;
      printf("%d/%d is the day number %d in the year\n", day, month, total_days);
      return 0;
```

}