Lab5

上机实践

- 1. 第三章课后习题10(calculation.c)
- 2. 第三章课后习题12(triangle.c)
- 3. 第三章课后习题16(pi.c)
- 4. 第三章课后习题20(palindrome.c)

读代码

1. For loop

```
#include <stdio.h>
int main()
{
    int num, count, sum = 0;

    printf("Enter a positive integer: ");
    scanf("%d", &num);

    // for loop terminates when num is less than count
    for(count = 1; count <= num; ++count)
    {
        sum += count;
    }

    printf("Sum = %d", sum);

    return 0;
}</pre>
```

2. While Loop

```
#include <stdio.h>
int main() {
  int i = 1;

while (i <= 5) {
    printf("%d\n", i);
    ++i;
  }

return 0;
}</pre>
```

3. Do...while Loop

```
#include <stdio.h>
int main() {
   double number, sum = 0;

// the body of the loop is executed at least once
   do {
      printf("Enter a number: ");
      scanf("%lf", &number);
      sum += number;
   }
   while(number != 0.0);

   printf("Sum = %.2lf", sum);
   return 0;
}
```