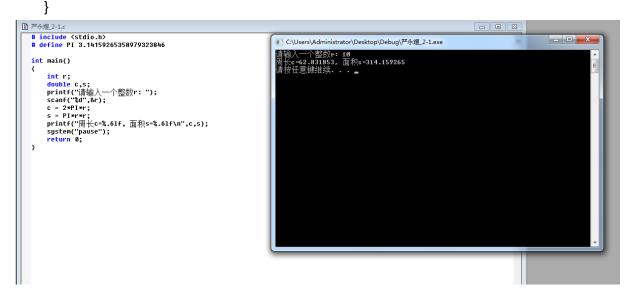
四. 实验结果与分析

2-1

```
%程序:
    # include <stdio.h>
    # define PI 3.14159265358979323846

int main()
{
    int r;
    double c,s;
    printf("请输入一个整数 r: ");
    scanf("%d",&r);
    c = 2*PI*r;
    s = PI*r*r;
    printf("周长 c=%.6lf, 面积 s=%.6lf\n",c,s);
    return 0;
.
```



遇到的问题:输出数据有微小差异解决方法:提高π精度

2-2

源程序:

```
# include <stdio.h>
int main()
{
```

2-3

```
源程序:
# include <stdio.h>
int main()
{
    int n;
    printf("Input integer number n:");
    scanf("%d",&n);
    switch(n)
    {
        case 1 : printf("Today is Monday!\n");break;
        case 2 : printf("Today is Tuesday!\n");break;
```

```
case 3 : printf("Today is Wednesday!\n");break;
    case 4 : printf("Today is Thursday!\n");break;
    case 5 : printf("Today is Friday!\n");break;
    case 6 : printf("Today is Saturday!\n");break;
    case 7 : printf("Today is Sunday!\n");break;
    default : printf("Input data error!\n");
}
return 0;
}
```

```
# include <stdio.h>
int main()
{
    int n;
    printf("Input integer number n:");
    scanf("%a",&n);
    switch(n)
{
        case 1 : printf("Today is Monday!\n");break;
        case 2 : printf("Today is Tursday!\n");break;
        case 3 : printf("Today is Tursday!\n");break;
        case 4 : printf("Today is Tursday!\n");break;
        case 5 : printf("Today is Friday!\n");break;
        case 6 : printf("Today is Saturday!\n");break;
        case 7 : printf("Today is Saturday!\n");break;
        default : printf("Input data error!\n");
    }
    system("pause");
    return 0;
}
```

2-4

```
源程序:
    # include <stdio.h>
    int main()
{
        int n, i, m;
        double e=1, each, grade;
        printf("Input n:");
        scanf("%d",&n);
        for (I = 1;I <= n;i++)
        {
            grade = 1;
            for (m = i; m > 0; m--) grade *= m;
            each = 1 / grade;
            e += each;
        }
```

```
printf("e=%.4lf\n",e);
return 0;
```

}

```
严永煜_2-4.c ₽ X
                                                                                                                                                                                               ▼ 诊断工!
the c programing language

1  # define _CRT_SECURE_NO_WARNINGS
2  # include <stdio.h>
                                                                      (全局范围)
                                                                                               ■ E:\MyCFile\try\Debug\the c programing language.exe
                                                                                                                                                                                              Input n:10
e=2.7183
请按任意键继续. . .
                ⊡int main()
                         int n, i, m;
double e=1, each, grade;
printf("Input n:");
scanf("%d",&n);
for (i=1;i<=n;i++)</pre>
        10
        11
12
13
14
15
                               grade = 1;
                               for (m = i; m > 0; m--) grade *= m;
each = 1 / grade;
                               e += each;
        16
17
                         printf("e=%.41f\n",e);
system("pause");
return 0;
        18
        19
       20
21
               []
100 % *
```