

作业1:

```
#include <stdio.h>
```

```
int main(int argc, const char * argv[]) {
```

```
    float r1;
```

```
    float h1;
```

```
    float pi=3.1415926;
```

```
    float perimeter;
```

```
    float area_cycle;
```

```
    float volume_sphere;
```

```
    float area_sphere;
```

```
    float volume_cylinder;
```

```
    printf("请输入半径r : ");
```

```
    scanf("%f",&r1);
```

```
    printf("请输入边长h : ");
```

```
    scanf("%f",&h1);
```

```
    float r = r1;
```

```
    float h = h1;
```

```
    perimeter = (float)2*pi*r;
```

```
    area_cycle = (float) pi*(r*r);
```

```
    volume_sphere = (float)(4/3)*pi*(r*r*r);
```

```
    area_sphere = (float) 4 * pi * (r*r);
```

```
    volume_cylinder = (float)area_cycle*h;
```

```
    printf("perimeter = %.2f \n",perimeter );
```

```
    printf("area_cycle = %.2f \n",area_cycle );
```

```
    printf("volume_sphere = %.2f \n",volume_sphere );
```

```
    printf("area_sphere = %.2f \n",area_sphere );
```

```
    printf("volume_cylinder = %.2f \n",volume_cylinder);
```

```
    return 0;
```

```
14     float h1;
```

```
15
```

```
16     float pi=3.1415926;
```

```
17     float perimeter;
```

```
18     float area_cycle;
```

```
19     float volume_sphere;
```

```
20     float area_sphere;
```

```
21     float volume_cylinder;
```

```
22
```

```
23     printf("请输入半径r: ");
```

```
24     scanf("%f",&r1);
```

```
25     printf("请输入边长h: ");
```

```
26
```

```
}
```

```
请输入半径r: 7
请输入边长h: 2
perimeter = 43.98
area_cycle = 153.94
volume_sphere = 1077.57
area_sphere = 615.75
volume_cylinder = 307.88
Program ended with exit code: 0
```

第二部分：

```
#include <stdio.h>
```

```
int main(int argc, const char * argv[]) {
```

```
    float i1,i2,i3,i4,i5,sum,mean;
```

```
    scanf("%f,%f,%f,%f,%f",&i1,&i2,&i3,&i4,&i5);
```

```
    sum = i1+i2+i3+i4+i5;
```

```
    mean = sum/5;
```

```
    printf("sum = %.2f, mean = %.2f\n", sum, mean);
```

```
    return 0;
```

```
8 #include <stdio.h>
```

```
9 //1.编程：输入半径r和高h，输出圆周长、圆面积、球体积、球表面积、圆柱体积，保留两位小数。
```

```
10
```

```
11 int main(int argc, const char * argv[]) {
```

```
12     float i1,i2,i3,i4,i5,sum,mean;
```

```
13     scanf("%f,%f,%f,%f,%f",&i1,&i2,&i3,&i4,&i5);
```

```
14     sum = i1+i2+i3+i4+i5;
```

```
15     mean = sum/5;
```

```
16     printf("sum = %.2f, mean = %.2f\n", sum, mean);
```

```
17     return 0;
```

```
18
```

```
19
```

```
20
```



```
1 1 1 1 1
```

```
sum = 1.00, mean = 0.20
```

```
Program ended with exit code: 0
```

```
}
```