

```
C SI.c ...
1 // Q9: Write a program to calculate simple and compound interest for given principal, rate, and time.
2
3 /*
4 Sample Test Cases:
5 Input 1:
6 1000 5 2
7 Output 1:
8 Simple Interest=100, Compound Interest=102.5
9
10 Input 2:
11 5000 7 3
12 Output 2:
13 Simple Interest=1050, Compound Interest=1125.21
14
15 */
16
17 #include <stdio.h>
18 #include <math.h>
19
20 int main()
21 {
22     float principal, rate, time;
23     float simple_interest, compound_interest;
24
25     printf("Enter principal amount: ");
26     scanf("%f", &principal);
27     printf("Enter rate of interest: ");
28     scanf("%f", &rate);
29     printf("Enter time (in years): ");
30     scanf("%f", &time);
31
32     simple_interest = (principal * rate * time) / 100;
33
34     compound_interest = principal * pow((1 + rate / 100), time) - principal;
35
36     printf("Simple Interest = %.2f\n", simple_interest);
37     printf("Compound Interest = %.2f\n", compound_interest);
38
39     return 0;
40 }
41
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\drago\OneDrive\Desktop\C PROGRAM> gcc .\SI.c
PS C:\Users\drago\OneDrive\Desktop\C PROGRAM> ./a.exe
Enter principal amount: 1000
Enter rate of interest: 5
Enter time (in years): 2
Simple Interest = 100.00
Compound Interest = 102.50
PS C:\Users\drago\OneDrive\Desktop\C PROGRAM> gcc .\SI.c
PS C:\Users\drago\OneDrive\Desktop\C PROGRAM> ./a.exe
Enter principal amount: 5000
Enter rate of interest: 7
Enter time (in years): 3
Simple Interest = 1050.00
Compound Interest = 1125.21
PS C:\Users\drago\OneDrive\Desktop\C PROGRAM> []
```

## C day5\_q10.c &gt; ⌂ main()

```
1 // Q10: Write a program to input time in seconds and convert it to hours:minutes:seconds format.  
2  
3 /*  
4 Sample Test Cases:  
5 Input 1:  
6 3661  
7 Output 1:  
8 1:1:1  
9  
10 Input 2:  
11 7322  
12 Output 2:  
13 2:2:2  
14 */  
15  
16  
17 #include <stdio.h>  
18  
19 int main() {  
20     int seconds, h, m, s;  
21  
22     printf("Enter time in seconds: ");  
23     scanf("%d", &seconds);  
24  
25     h = seconds / 3600;  
26     m = (seconds % 3600) / 60;  
27     s = seconds % 60;  
28  
29     printf("Time = %2d:%2d:%2d\n", h, m, s);  
30  
31     return 0;  
32 }  
33
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\drago\OneDrive\Desktop\C H.W&gt; gcc .\day5\_q10.c

PS C:\Users\drago\OneDrive\Desktop\C H.W&gt; ./a.exe

Enter time in seconds: 3661

Time = 1: 1: 1

PS C:\Users\drago\OneDrive\Desktop\C H.W&gt; gcc .\day5\_q10.c

PS C:\Users\drago\OneDrive\Desktop\C H.W&gt; ./a.exe

Enter time in seconds: 7322

Time = 2: 2: 2

PS C:\Users\drago\OneDrive\Desktop\C H.W&gt; █