

Computer programing assignment

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1 Interest

```
#include <stdio.h>

int main()
float principal, rate, time, interest;

printf("Enter Principal amount: ");

scanf("%f", &principal);

printf("Enter Rate of Interest (in %%): ");

scanf("%f", &rate);

printf("Enter Time (in years): ");

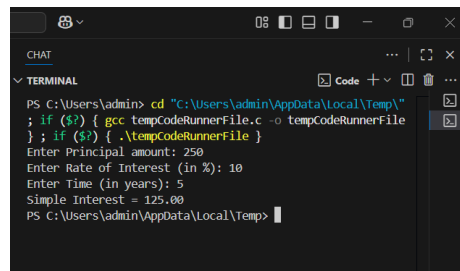
scanf("%f", &time);

interest = (principal * rate * time) / 100;

printf("Simple Interest = %.2f\n", interest);

return 0;
```

2 Output



The image shows a screenshot of a Visual Studio Code terminal window. The terminal is titled 'TERMINAL' and shows a PowerShell prompt 'PS c:\Users\admin\AppData\Local\Temp>'. The user enters a command to run a C program: `cd "C:\Users\admin\AppData\Local\Temp\" ; if ($?) { gcc tempCodeRunnerFile.c -o tempCodeRunnerFile } ; if ($?) { .\tempCodeRunnerFile }`. The program prompts for input: 'Enter Principal amount: 250', 'Enter Rate of Interest (in %): 10', and 'Enter Time (in years): 5'. The program then outputs 'Simple Interest = 125.00'. The terminal window has a dark theme and includes standard window controls at the top.

```
PS c:\Users\admin\AppData\Local\Temp> cd "C:\Users\admin\AppData\Local\Temp\"
; if ($?) { gcc tempCodeRunnerFile.c -o tempCodeRunnerFile
} ; if ($?) { .\tempCodeRunnerFile }
Enter Principal amount: 250
Enter Rate of Interest (in %): 10
Enter Time (in years): 5
Simple Interest = 125.00
PS c:\Users\admin\AppData\Local\Temp>
```

Figure 1: