

C PROGRAMMING ASSIGNMENT:

5

DATE: 29.10.21

SUBMITTED BY: -

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BRANCH: CSE

SECTION: B22

ROLL NO.: 21052258

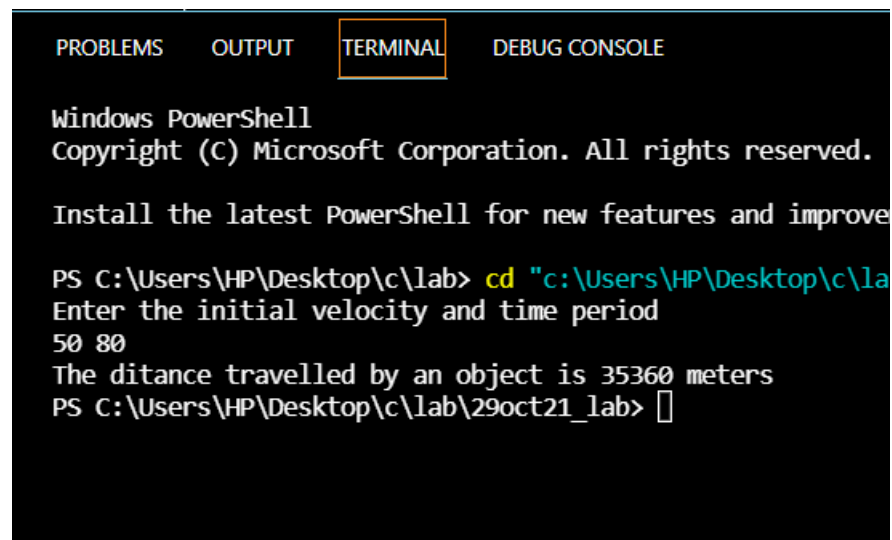
Program 1: Write a program to find distance travelled by an object.

Code:

```
#include<stdio.h>
#define g 9.8

int main(int argc, char const *argv[])
{
    int u,t,s;
    printf("Enter the initial velocity and time period \n");
    scanf("%d %d",&u,&t);
    s=(u*t)+(1/2.0)*g*t*t;
    printf("The distance travelled by an object is %d meters",s);
    return 0;
}
```

Output:



The screenshot shows a Windows PowerShell terminal window with the 'TERMINAL' tab selected. The window title is 'Windows PowerShell' and it includes a copyright notice for Microsoft Corporation. The user is in the directory 'C:\Users\HP\Desktop\c\lab' and has executed the command 'cd "c:\Users\HP\Desktop\c\lab\29oct21_lab"'. The program prompts for 'Enter the initial velocity and time period' and the user has entered '50 80'. The program then outputs 'The distance travelled by an object is 35360 meters'.

```
PROBLEMS  OUTPUT  TERMINAL  DEBUG CONSOLE

Windows PowerShell
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Install the latest PowerShell for new features and improvements: https://aka.ms/PowerShellLatest

PS C:\Users\HP\Desktop\c\lab> cd "c:\Users\HP\Desktop\c\lab\29oct21_lab"
Enter the initial velocity and time period
50 80
The distance travelled by an object is 35360 meters
PS C:\Users\HP\Desktop\c\lab\29oct21_lab> 
```

Program 2: Write a program to swap 2 numbers without using a third variable

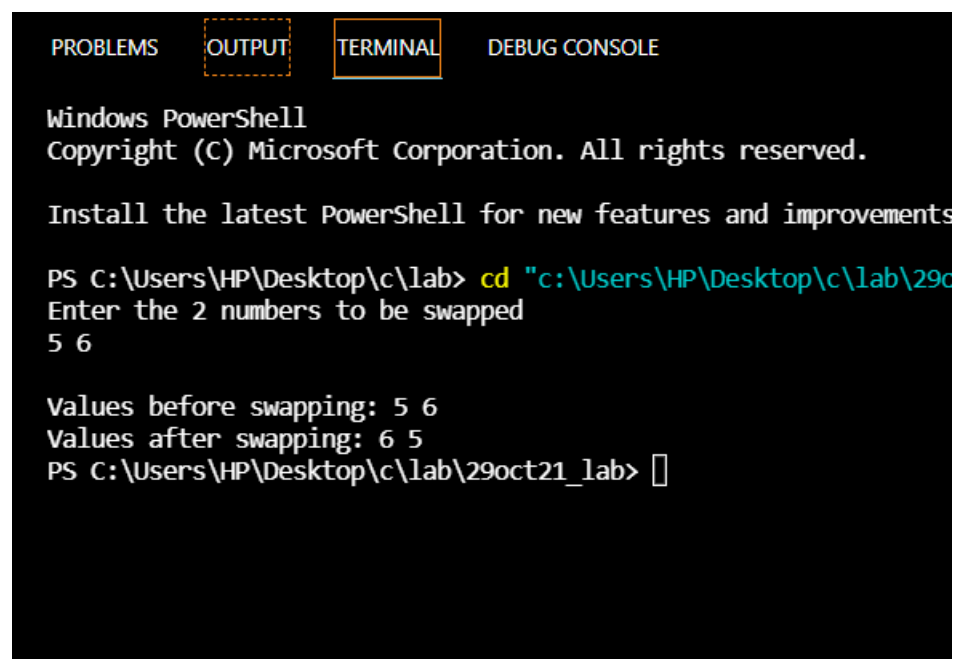
Code:

```
#include<stdio.h>

int main(int argc, char const *argv[])
{
    int a,b;
    printf("Enter the 2 numbers to be swapped\n");
    scanf("%d %d",&a,&b);
    printf("\nValues before swapping: %d %d",a,b);
    a=a+b;
    b=a-b;
    a=a-b;
    printf("\nValues after swapping: %d %d",a,b);

    return 0;
}
```

Output:



```
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

Windows PowerShell
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PS C:\Users\HP\Desktop\c\lab> cd "c:\Users\HP\Desktop\c\lab\29oct21_lab"
Enter the 2 numbers to be swapped
5 6

Values before swapping: 5 6
Values after swapping: 6 5
PS C:\Users\HP\Desktop\c\lab\29oct21_lab> 
```

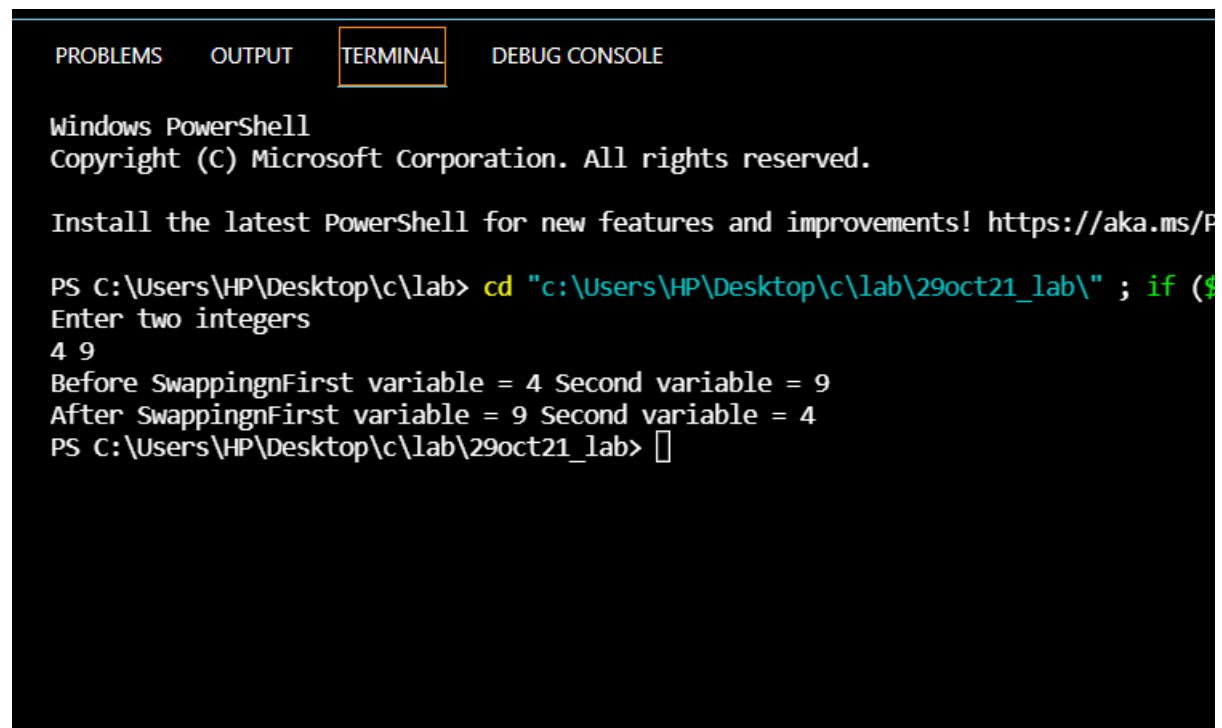
Program 3: Write a program to swap two numbers with using a third variable

Code:

```
#include <stdio.h>

int main()
{
    int a,b, temp;
    printf("Enter two integers\n");
    scanf("%d %d", &a, &b);
    printf("Before Swapping First variable = %d Second variable = %d\n", a, b);
    temp = a;
    a = b;
    b = temp;
    printf("After Swapping First variable = %d Second variable = %d\n", a, b);
    return 0;
}
```

Output;



The screenshot shows a Windows PowerShell terminal window with the following content:

```
PROBLEMS  OUTPUT  TERMINAL  DEBUG CONSOLE

Windows PowerShell
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PS C:\Users\HP\Desktop\c\lab> cd "c:\Users\HP\Desktop\c\lab\29oct21_lab\" ; if ($?) { gcc 29oct21_lab.c -o 29oct21_lab.exe & .\29oct21_lab.exe }
Enter two integers
4 9
Before Swapping First variable = 4 Second variable = 9
After Swapping First variable = 9 Second variable = 4
PS C:\Users\HP\Desktop\c\lab\29oct21_lab> █
```

