

C PROGRAMMING ASSIGNMENT:

4

DATE: 28.10.21

SUBMITTED BY: -

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BRANCH: CSE

SECTION: B22

ROLL NO.: 21052258

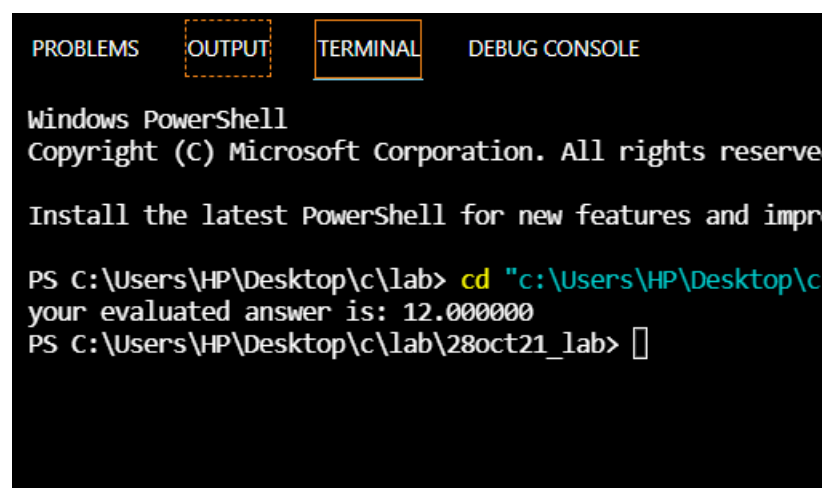
Program 1: //evaluation

Code:

```
#include<stdio.h>

int main(int argc, char const *argv[])
{
    int a,b,c;
    float d;
    a=3;
    b=4;
    c=2;
    d=a+b*c/2-(a-b)*5;
    printf("your evaluated answer is: %f",d);
    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\28oct21_lab"
your evaluated answer is: 12.000000
PS C:\Users\HP\Desktop\c\lab\28oct21_lab> 
```

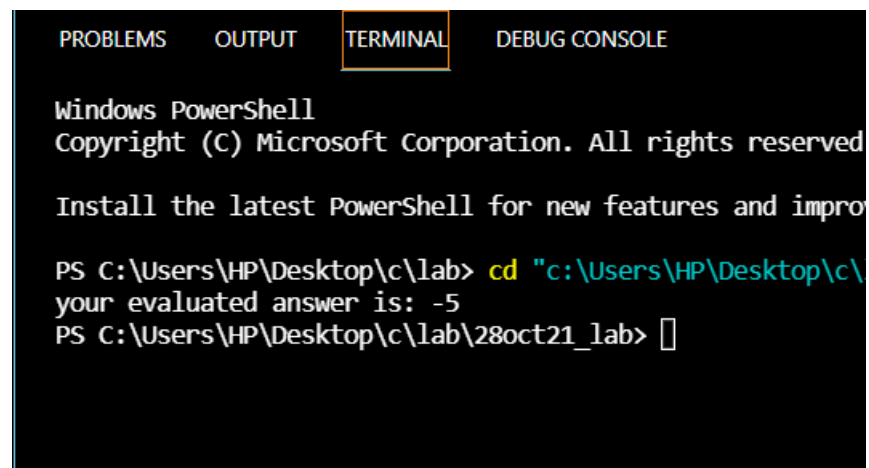
Program 2: //evaluation

Code:

```
#include<stdio.h>

int main(int argc, char const *argv[])
{
    int a,b,c;
    int d;
    a=2;
    b=3;
    c=4;
    d=a++++-b-++c-++a;
    printf("your evaluated answer is: %d",d);
    return 0;
}
```

Output:



The screenshot shows a Windows PowerShell terminal window with the 'TERMINAL' tab selected. The window displays the following text:

```
Windows PowerShell
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PS C:\Users\HP\Desktop\c\lab> cd "c:\Users\HP\Desktop\c\lab"
your evaluated answer is: -5
PS C:\Users\HP\Desktop\c\lab\28oct21_lab> 
```

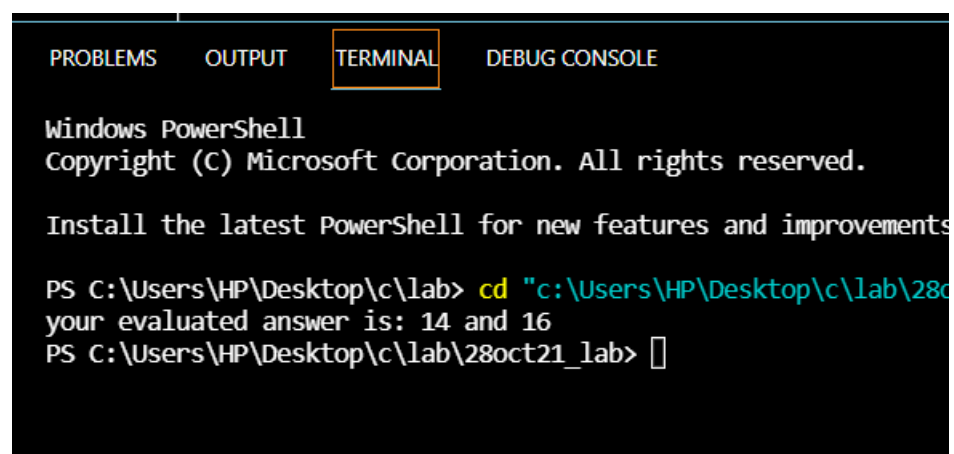
Program 3: // evaluation

Code:

```
#include<stdio.h>

int main(int argc, char const *argv[])
{
    int a,b,c,d;
    a=5;
    b=10;
    c=++a+b--;
    d=a++--b;
    printf("your evaluated answer is: %d and %d",d,c);
    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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https://aka.ms/pscore6

PS C:\Users\HP\Desktop\c\lab> cd "c:\Users\HP\Desktop\c\lab\28oct21_lab"
your evaluated answer is: 14 and 16
PS C:\Users\HP\Desktop\c\lab\28oct21_lab> 
```

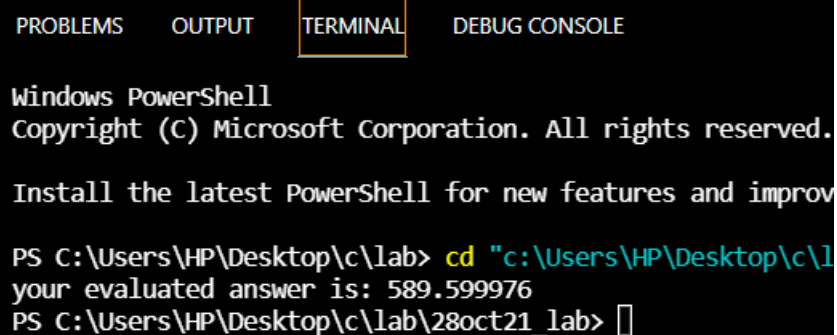
Program 4: //evaluation

Code:

```
#include<stdio.h>

int main(int argc, char const *argv[])
{
    int x;
    float a,b,c,d;
    a=3.54;
    b=4.87;
    c=2.83;
    x=5.40;
    d=3*a*x+10*b*x+20*c*x+10;
    printf("your evaluated answer is: %f",d);
    return 0;
}
```

Output:



```
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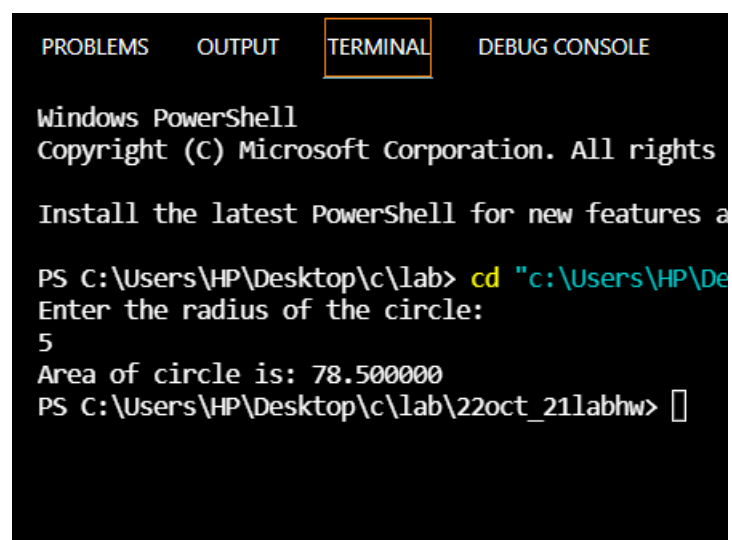
PS C:\Users\HP\Desktop\c\lab> cd "c:\Users\HP\Desktop\c\lab\28oct21_lab"
your evaluated answer is: 589.599976
PS C:\Users\HP\Desktop\c\lab\28oct21_lab> 
```

Program 5: Write a program to find area of a circle

Code:

```
#include<stdio.h>
#define pi 3.14
void main()
{
    float r,a;
    printf("Enter the radius of the circle:\n");
    scanf("%f",&r);
    a=pi*r*r;
    printf("Area of circle is: %f",a);
}
```

Output:



```
PROBLEMS  OUTPUT  TERMINAL  DEBUG CONSOLE

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PS C:\Users\HP\Desktop\c\lab> cd "c:\Users\HP\Desktop\c\lab\22oct_21labhw"
Enter the radius of the circle:
5
Area of circle is: 78.500000
PS C:\Users\HP\Desktop\c\lab\22oct_21labhw> 
```

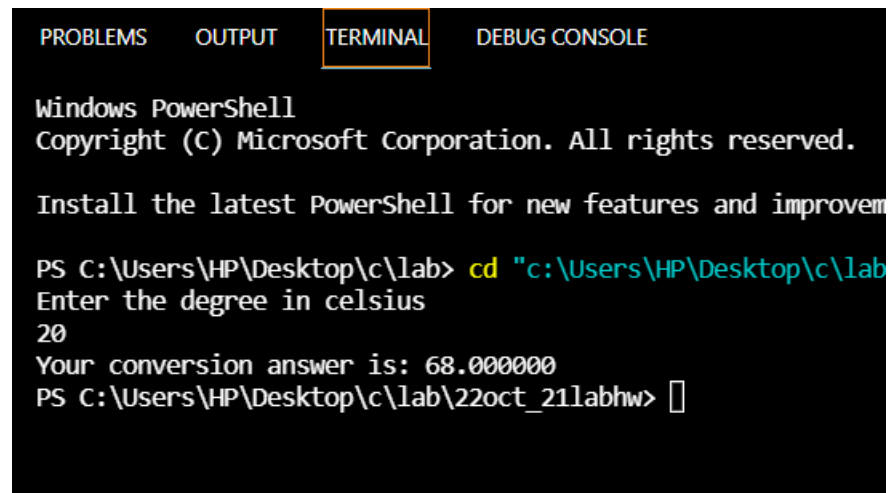
Program 6: Write a program to convert degree Celsius to Fahrenheit.

Code:

```
#include<stdio.h>

int main(int argc, char const *argv[])
{
    float c,f;
    printf("Enter the degree in celsius");
    scanf("%f",&c);
    f=(c*(9/5.0f))+32;
    printf("Your conversion answer is: %f",f);
    return 0;
}
```

Output:



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

```
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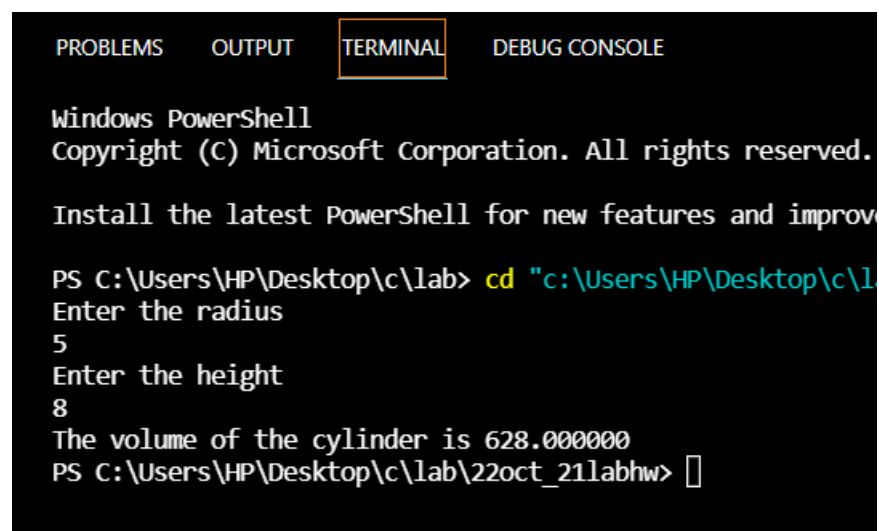
PS C:\Users\HP\Desktop\c\lab> cd "c:\Users\HP\Desktop\c\lab"
Enter the degree in celsius
20
Your conversion answer is: 68.000000
PS C:\Users\HP\Desktop\c\lab\22oct_21labhw> 
```

Program 7: Write a program to find volume of a cylinder

Code:

```
#include<stdio.h>
#define pi 3.14
int main(int argc, char const *argv[])
{
    float r,h,a;
    printf("Enter the radius\n");
    scanf("%f",&r);
    printf("Enter the height\n");
    scanf("%f",&h);
    a=pi*r*r*h;
    printf("The volume of the cylinder is %f",a);
    return 0;
}
```

Output:



```
PROBLEMS  OUTPUT  TERMINAL  DEBUG CONSOLE

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PS C:\Users\HP\Desktop\c\lab> cd "c:\Users\HP\Desktop\c\lab"
Enter the radius
5
Enter the height
8
The volume of the cylinder is 628.000000
PS C:\Users\HP\Desktop\c\lab\22oct_21labhw> 
```