

Windows PowerShell

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```
PS D:\Workspace\CECS-524\Lab 16> gcc -c Distance_To-Origin.adb | gnatbind Distance_To-Origin | gnatmake Distance_To-Origin
gnatbind -x distance_to_origin.ali
gnatlink distance_to_origin.ali
```

```
PS D:\Workspace\CECS-524\Lab 16> .\distance_to_origin.exe
```

Enter X Coordinate >100

Enter Y Coordinate >25

Distance to the origin is 103.08

```
PS D:\Workspace\CECS-524\Lab 16> █
```

```
WITH Ada.Text_IO;  
WITH Ada.Float_Text_IO;  
WITH Ada.Numerics.Elementary_Functions;  
USE   Ada.Numerics.Elementary_Functions;  
  
PROCEDURE Distance_between_Points IS  
  TYPE Point IS RECORD  
    X : Float;  
    Y : Float;  
  END RECORD;  
  
  Point1 : Point;  
  Point2 : Point;  
  Distance : Float;  
  
  BEGIN  
    Ada.Text_IO.Put(Item => "Enter X Coordinate for Point 1 >");  
    Ada.Float_Text_IO.Get(Item => Point1.X);  
    Ada.Text_IO.Put(Item => "Enter Y Coordinate for Point 1 >");  
    Ada.Float_Text_IO.Get(Item => Point1.Y);  
    Ada.Text_IO.Put(Item => "Enter X Coordinate for Point 2 >");  
    Ada.Float_Text_IO.Get(Item => Point2.X);  
    Ada.Text_IO.Put(Item => "Enter Y Coordinate for Point 2 >");  
    Ada.Float_Text_IO.Get(Item => Point2.Y);  
    Distance := Sqrt((Point1.X-Point2.X) ** 2 + (Point1.Y-Point2.Y) ** 2);  
    Ada.Text_IO.Put(Item => "The distance between the points is ");  
    Ada.Float_Text_IO.Put(Item => Distance, Fore=>1, Aft=>2, Exp=>0);  
    Ada.Text_IO.New_Line;  
  END Distance_between_Points;
```

Windows PowerShell

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```
PS D:\Workspace\CECS-524\Lab 16> gcc -c Distance_between_Points.adb | gnatbind Distance_between_Points | gnatmake Distance_between_Points
```

```
gnatbind -x distance_between_points.ali
```

```
gnatlink distance_between_points.ali
```

```
PS D:\Workspace\CECS-524\Lab 16> .\distance_between_points.exe
```

```
Enter X Coordinate for Point 1 >100
```

```
Enter Y Coordinate for Point 1 >50
```

```
Enter X Coordinate for Point 2 >-100
```

```
Enter Y Coordinate for Point 2 >-50
```

```
The distance between the points is 223.61
```

```
PS D:\Workspace\CECS-524\Lab 16> █
```