Lab 05- Q3

```
#include <stdio.h>
  #include <math.h>
  #define PI 3.14159265
int main() [
     double a, b, c, alpha;
     // Input side lengths and angle in degrees
     printf("Enter the length of side b: ");
     scanf("%1f", &b);
     printf("Enter the length of side c: ");
     scanf("%lf", &c);
     printf("Enter the angle alpha in degrees: ");
     scanf("%1f", &alpha);
     // Convert angle from degrees to radians
     alpha = alpha * PI / 180.0;
     // Calculate the length of side a
     a = sqrt(pow(b, 2) + pow(c, 2) - 2 * b * c * cos(alpha));
     // Output the result
     printf("The length of side a is: %lf\n", a);
     return 0;
- 1
```

```
Enter the length of side b: 8
Enter the length of side c: 6
Enter the angle alpha in degrees: 90
The length of side a is: 10.000000

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Process exited after 14.18 seconds with return value 0
Press any key to continue . . .
```