

```
COM4 - PuTTY

Part a's answer is: 4.347517
Part b's answer is: 3.497779
Part c's answer is: 2.888852
Part d's answer is: 4.434878
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1  #include <stdio.h>
2  #include <stdlib.h>
3  #include <string.h>
4  #include <math.h>
5  #include "mcc_generated_files/mcc.h"
6
7  void main(void)
8  {
9      // Initialize the device
10     SYSTEM_Initialize();
11
12     //Part (a)
13
14     float x=2.25, y=3.72, z;
15
16     z= sqrt(pow(x,2)+pow(y,2));
17
18
19     printf("\n\r Part a's answer is: %f ",z);
20
21
22     //Part (b)
23
24     float pi=4.0*atanf(1.0), R, A=4.27, beta=35.0*pi/180;
25
26     R= A*cos(beta);
27
28
29     printf("\n\r Part b's answer is: %f ",R);
30
31
32     //Part (c)
33
34     float X, D=6.85, alpha=33.0*pi/180;
35
36     X=D*pow(tan(alpha),2);
37
38     printf("\n\r Part c's answer is: %f ",X);
39
40
41     //Part (d)
42
43
44     float v, J=2.15, g=9.81, theta=43.0*pi/180;
45
46     v= sqrt(J*g*tan(theta));
47
48     printf("\n\r Part d's answer is: %f ",v);
49
50     while (1)
51     {
52         // Add your application code
53     }
54 }
55 /**
56  End of File
57  */

```