#### **Table of Contents**

```
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_ ...... 2
function [cable_length,cable_weight,total_cost] =
PS06 cableUDF 002 08(bridge height, distances deck, num strand)
% ENGR 132
% Program Description
% We are on a civil engineering team working on a pedestrian bridge.
% is user defined function that has three inputs and three output to
% calculate the cable length, cable weight and total cost based on
data
% input.
% Function Call
% [cable_length,cable_weight,total_cost] =
PS06_cableUDF_002_08(bridge_height, distances_deck, num_strand)
% Input Arguments
% 1. Heights from the bridge deck to the cable tower anchorage
% 2. Distances between the tower base and the cable deck anchorage
% 3. Number of strands in the cable
% Output Arguments
% 1. Total Cable Length
% 2. Total Cable Weight
% 3. Total Estimated Cost
% Assignment Information
  Assignment:
               PS 06, Problem 3
읒
  Team ID: 002-08
응
  Team Member: Ian Pitman, ipitman@purdue.edu
 Team Member: Eu Jin Lee, lee2219@purdue.edu
2
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  Team Member: Yi Zhou, zhou823@purdue.edu
응
  Contributor: Name, login@purdue [repeat for each]
  My contributor(s) helped me:
   [ ] understand the assignment expectations without
응
      telling me how they will approach it.
```

### INITIALIZATION

### **CALCULATIONS**

## **COMMAND WINDOW OUTPUT**

```
[cable_length,cable_weight,total_cost] = PS06_cableUDF_002_08(bridge_height, distances_deck, num_strand)

cable_length =
675.4893

cable_weight =
3.1798e+04

total_cost =
7.9495e+05
```

# **ACADEMIC INTEGRITY STATEMENT**

We have not used source code obtained from any other unauthorized source, either modified or unmodified. Neither have we provided access to our code to another. The function we are submitting is our own original work.

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