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| --- | --- | --- | --- |
| Input | Expected Results | Actual Output | Pass? |
| Build and compile | Show menu |  | Y |
| Choose circle and input radius | Calculate area, output results, open image |  | Y |
| Choose square and input side | Calculate area, output results, open image |  | Y |
| Choose triangle and input 3 sides | Calculate area, output results, open image |  | Y |
| Choose rectangle and length and width | Calculate area, output results, open image |  | Y |
| Choose sphere and input radius | Calculate volume, output results, open image |  | Y |
| Choose cube and input side length | Calculate volume, output results, open image |  | Y |
| Choose cone and input radius and height | Calculate volume, output results, open image |  | Y |
| Choose cylinder and input height and radius | Calculate volume, output results, open image |  | Y |
| Choose torus and input major and minor radius | Calculate volume, output results, open image |  | Y |
| Invalid input | Handle error and notify user |  | Y |
| Choose Display Current Shapes | Output the array of current shapes to user |  | Y |
| Exit | Thanks, output date and time, output all shapes created |  | Y |