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| **Program**  **3.1**: | Write the program that take the length of the pendulum as input and then calculate the time period of the pendulum. Provided that t=2π define the value of π as 3.14 and find the values of period |
| **Algorithm**: | Step1: Start  Step2: Declare l, g and t  Step3: Enter the values of l and g  Step4: t=2\*(PI)\*(sqrtL\l/g)  Step5: Print time period  Step6: End |
| **Flowchart**: | Print Time period  T=2\*π\*  Declare l,g,t  Print the value of l and g |
| **Code**: |  |
| **Output**: |  |
| **Question**  **Answer**? | Q1 Have you learned about, how the math function is useful for calculating square root? Which data type is supported for math function? Also mention 5 math function with their purpose.   |  |  |  | | --- | --- | --- | | **Sr No** | **Math Function** | **Description** | | 1 | Sqrt() | Calculate the square root of floating-point values | | 2 | Pow() | Round down the floating-point values to the next whole number | | 3 | Abs() | Rounds up a floating-point value to next whole number (nonfractional value) | | 4 | Floor() | Returns the absolute value of an integer | | 5 | Ceil() | Returns the result of a floating-point value raised to a certain power | |