**<CALCULATOR>**

##### MINI PROJECT REPORT

***In partial fulfillment for the award of the degree***

***Of***

##### BACHELOR OF TECHNOLOGY

*in*

**COMPUTER SCIENCE & TECHNOLOGY**

###### ***Submitted by***

###### **<Shubham Kumar>**

1848510105



### <DeparTMENT OF INFORMATION TECHNOLOGGY>

**SR INSTITUTE OF MANAGEMENT AND TECHNOLOGY**

LUCKNOW, UTTAR PRADESH

NOVEMBER, 2020

**CERTIFICATE**

This is to certify that the **<SHUBHAM KUMAR >** , <1848510105> of **<Dept OF COMPUTER SCIENCE AND ENGINEERING>** successfully submitted the mini project report entitled **<CALCULATOR>**

**Mr. Faizan Mahmood**

Assistant Professor

Dept of Computer Science & Engineering SRIMT, Lucknow

**CERTIFICATE**

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**Mr. R. K. P. Dubey Mrs. Neeta Rastogi**

Project Coordinator Head

Dept of Computer Science & Engineering Dept of CSE

SRIMT, Lucknow SRIMT, Lucknow

**DECLARATION**

“I hereby declare that this submission is my own work and that, to the best of my knowledge and belief, it contains no material previously published or written by another person nor material which has been accepted for the award of any other degree or diploma of the university or other institute of higher learning, except where due acknowledgment has been made in the text”.

Date:

**ACKNOWLEDGEMENT**

We are immensely thankful and express our deep sense of gratitude and indebt to our head of the department **Mrs. Neeta Rastogi.**

We are also grateful to our Project Coordinator **Mr. Ram Prakash Paramhans Dubey** for their regular feedback doing the training time period. We are extremely thankful to our Project Guide, **Mr.** **Faizan Mahmood** (Assistant Professor, Dept of Computer Science & Engineering) for suggesting us a problem of vital interest without which benign guidance and concrete advice to this project would not have seen the light of the day. Their continuous monitoring and time management was an inspired force for us to complete the project.

Among rest to mention we would like to thank all my colleagues and friends who supported and helped us in completion of this work.

Lastly, we would like to thank our parents. No words can express our heartfelt gratitude for them.

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**1. INTRODUCTION**

ou made it! By now you should have a really firm grasp on the fundamentals of JavaScript. Of course there’s plenty more to learn, but you should be able to create quite a bit at this point. Our final project is going to combine everything you’ve learned so far: you’re going to make an on-screen calculator using JavaScript, HTML, and CSS.

As usual with these things, there are elements of this project that are not going to be trivially easy for you, but if you’ve been following the course so far, you definitely have everything you need to finish it. We’re going to walk you through the various steps you can take, but again, how you actually implement them is up to you!

**Important Note:** Before you get started with this calculator project, we need to cover a word of warning. As you look into how to evaluate complex mathematical statements in JavaScript, you will likely come across the tantalizing [eval()](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/eval" \t "_blank) function. However, this function can be very dangerous and [should not ever be used](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/eval#Never_use_eval!)! You’ll need to build your own functions to evaluate expressions as part of this calculator project

1.1 Background…Computer [operating systems](https://en.wikipedia.org/wiki/Operating_system) as far back as [early Unix](https://en.wikipedia.org/wiki/Ancient_UNIX) have included interactive calculator [programs](https://en.wikipedia.org/wiki/Computer_program) such as [dc](https://en.wikipedia.org/wiki/Dc_(computer_program)) and [hoc](https://en.wikipedia.org/wiki/Hoc_(programming_language)), and calculator functions are included in almost all [personal digital assistant](https://en.wikipedia.org/wiki/Personal_digital_assistant) (PDA) type devices, the exceptions being a few dedicated address book and dictionary devices.………………………...........

1.2 Purpose…In addition to general purpose calculators, there are those designed for specific markets. For example, there are [scientific calculators](https://en.wikipedia.org/wiki/Scientific_calculator) which include [trigonometric](https://en.wikipedia.org/wiki/Trigonometry) and [statistical](https://en.wikipedia.org/wiki/Statistics) calculations. Some calculators even have the ability to do [computer algebra](https://en.wikipedia.org/wiki/Computer_algebra). [Graphing calculators](https://en.wikipedia.org/wiki/Graphing_calculator) can be used to graph functions defined on the real line, or higher-dimensional [Euclidean space](https://en.wikipedia.org/wiki/Euclidean_space). As of 2016, basic calculators cost little, but scientific and graphing models tend to cost more.…………………………...........

1.3 ScopeThe calculator can help you estimate the **theoretical** weight of metal & plastic products according to their type, density and shape.  
  
All data provided by Scope is provided for indicative purposes only.  
  
Please note that the difference between theoretical and actual weights may be significant, depending on the material, manufacturer and tolerances.  
  
You should verify all your calculation professionally………………………….................

1.4 ObjectiveSome general example uses of the Calculation objective’s mathematical functions are:

* In Peak times, allow no more than a 5% failure rate on scheduled jobs within a 1 month interval that is aligned (measures Critical alarms issued from scheduled jobs).
* In On times, 80% of employees must be participating in the corporate benefits plan within a 1 month interval that is aligned (measures an alarm property that indicates employee participation in benefits plan).
* In Peak times, average Response Time must be at least 10 seconds within a 1 day interval that is aligned.
* In On times, no more than 20% of Critical alarms must have a trouble ticket issued after 10 minutes within a 1 month interval that is aligned (measures an alarm property that indicates the length of time taken to create the trouble ticket after the alarm was issued).

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**2 . PROBLEM IDENTIFICATION**

## Journal Information

An official journal of the National Council of Teachers of Mathematics (NCTM), JRME is the premier research journal in mathematics education and is devoted to the interests of teachers and researchers at all levels--preschool through college.

## Publisher Information

The National Council of Teachers of Mathematics is a public voice of mathematics education, providing vision, leadership, and professional development to support teachers in ensuring mathematics learning of the highest quality for all students. With nearly 90,000 members and 250 Affiliates, NCTM is the world's largest organization dedicated to improving mathematics education in grades prekindergarten through grade 12. The Council's "Principles and Standards for School Mathematics" are guidelines for excellence in mathematics education and issue a call for all students to engage in more challenging mathematics. NCTM is dedicated to ongoing dialogue and constructive discussion with all stakeholders about what is best for our nation's students

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**8. BIO DATA OF EACH GROUP MEMBER**

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