APPLICATION PROGRAMMING LAB FILE

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CSE

TO:- PROF. MD. ARQUAM

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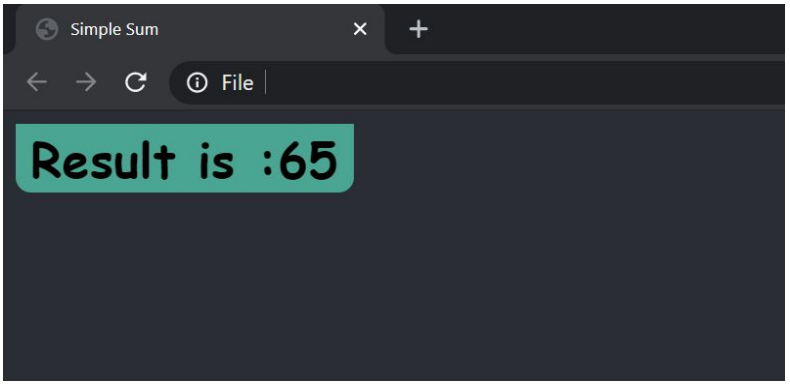
Program - 1

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"
"http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
    <head>
        <title> Simple Sum </title>
        <script>
            function addNumber(firstNo,secondNo) {
                var returnValue="Result is :";
                function add() {
                    return returnValue+(firstNo+secondNo);
                }
                return add();
            }
            var a=addNumber(20,45);
            document.write("<h1>" + String(a) + "</h1>");
        </script>
        <style>
            body {
                background-color: #2A2D34;
                font-family: cursive;
            }
            h1 {
                display: inline;
                background-color: rgb(74, 165, 147);
                border-bottom-right-radius: 10px;
                border-bottom-left-radius: 10px;
                padding-left: 10px;
                padding-right: 10px;
            }
        </style>
    </head>
</html>
```



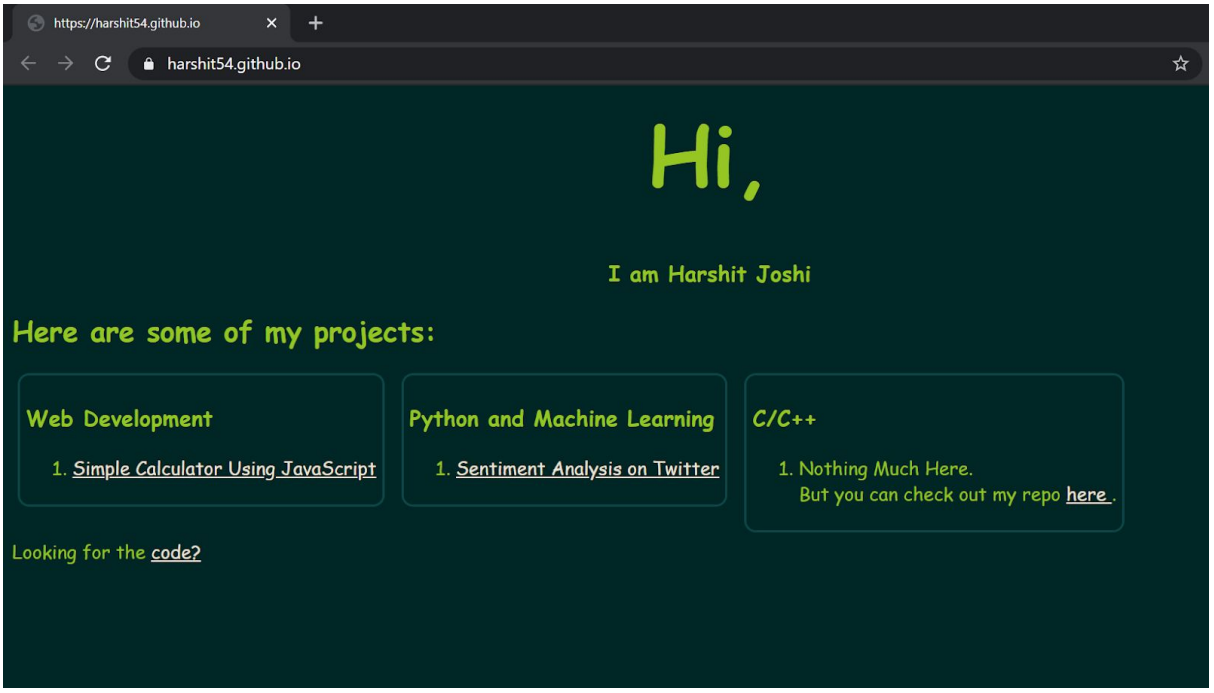
Program - 2

```
<!DOCTYPE html>
<html>
    <head>
        <link rel="stylesheet" type="text/css" href="Main/main.css">
    </head>
    <body>
        <div class="heading">
            <h1>Hi,</h1><br>
            <h3>I am Harshit Joshi</h3>
        </div>
        <h2>Here are some of my projects: </h2>
        <div class="row">
            <div class="col">
                <h3>Web Development</h3>
                <ol>
                    <li><a href="Web Develop/calculator.html"
length="250px">Simple Calculator Using JavaScript</a></li>
                </ol>
            </div>
            <div class="col">
                <h3>Python and Machine Learning</h3>
                <ol>
                    <li><a
href="https://twitter-senti-analysis.herokuapp.com/">Sentiment Analysis
on Twitter</a></li>
                </ol>
            </div>
            <div class="col">
                <h3>C/C++</h3>
                <ol>
                    <li>Nothing Much Here.<br>But you can check out my
repo <a href="https://github.com/harshit54">here </a>.</li>
                </ol>
            </div>
        </div>
    </body>
    <footer>
        Looking for the <a
href="https://github.com/harshit54/harshit54.github.io/">code?</a>
    </footer>
</html>
```

Main.css

```css
h1
{
    font-size: 72px;
    margin: 0px;
    padding:0px;
}
.heading
{
    text-align: center;
}
.col
{
    display: inline-block;
    border: solid 2px rgb(14, 71, 73);
    margin: 5px;
    margin-top: 0px;
    border-radius: 10px;
    padding: 5px;
    position: relative;
    top: 0px;
    vertical-align: top;
}
.col:hover
{
    background-color: rgb(14, 71, 73);
}
img
{
    height: auto;
    max-width: 50%;
    border-radius: 250px;
    align-self: center;
    align-items: center;
    align-content: center;
}
img:hover
{
    background-color: rgb(56, 145, 166);
    filter: blur(1px);
}
body
{
```

```
    font-family: cursive;
    background-color: rgb(0, 38, 38);
    color: rgb(149, 198, 35);
}
a
{
    color: rgb(239, 231, 218);
}
a:hover
{
    color:rgb(229, 88, 18);
}
```

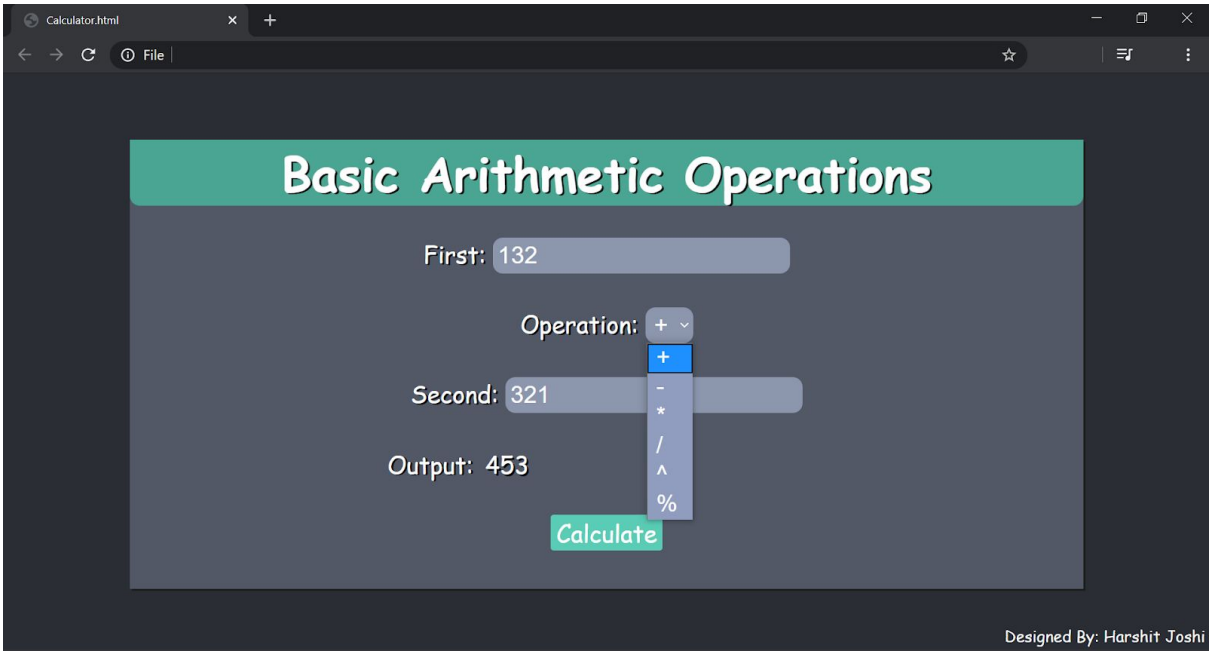


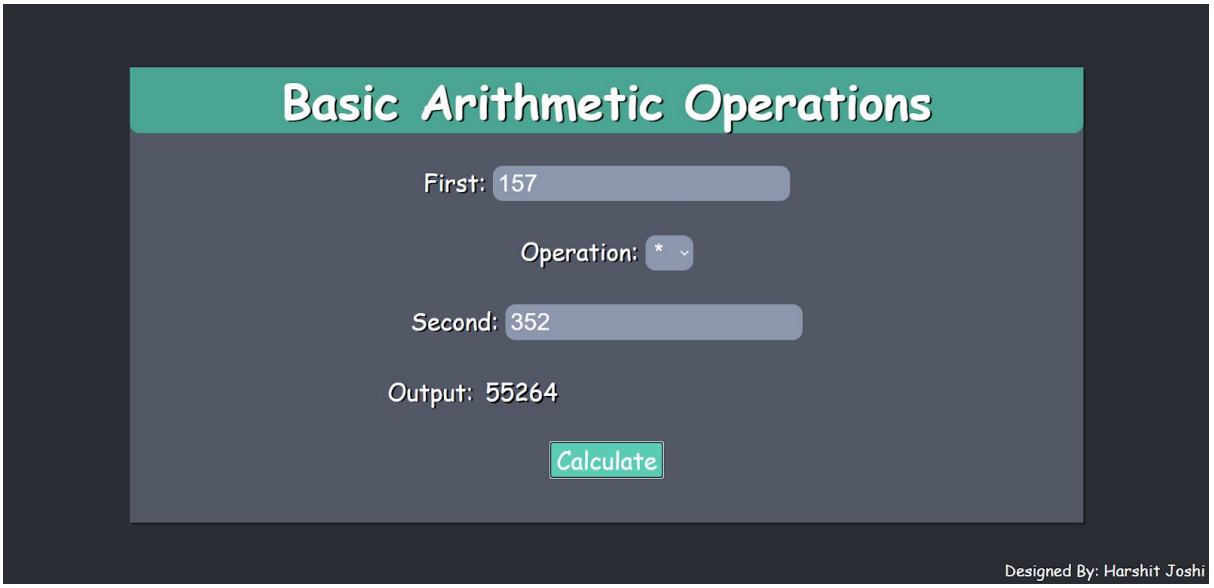
Program - 3

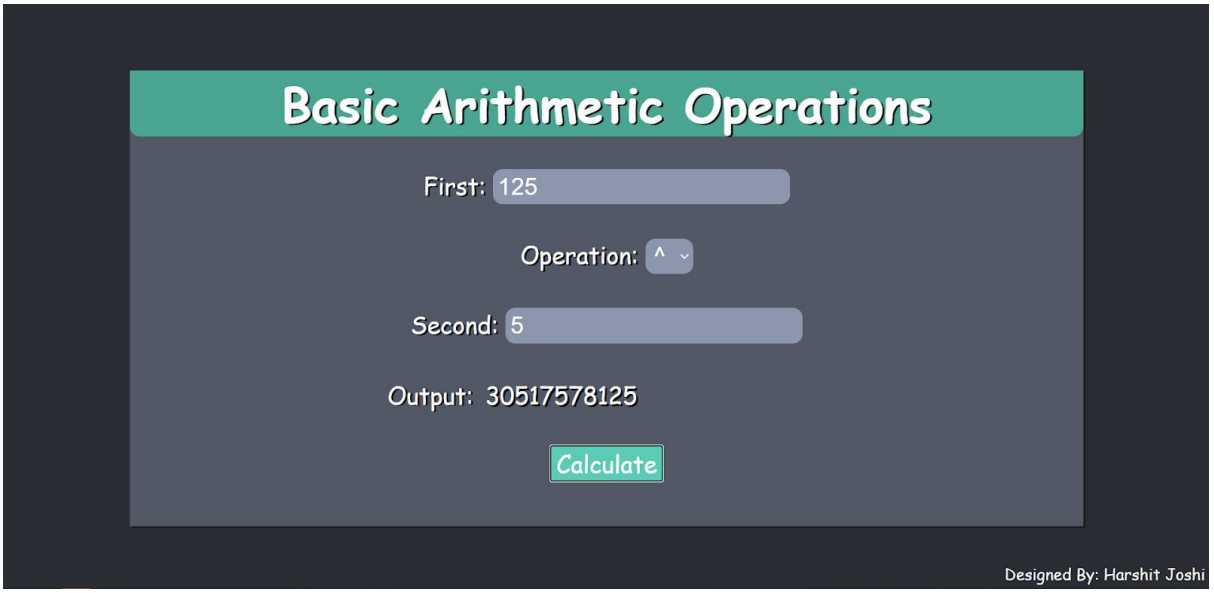
```
<html>
    <head>
        <script>
            function calculate() {
                var x = Number(document.getElementById("first").value);
                var y =
Number(document.getElementById("second").value);
                var op = document.getElementById("ops").value;
                var z;
                if (op == '+')
                    z = x + y
                else if (op == '-')
                    z = x - y;
                else if (op == '*')
                    z = x * y;
                else if (op == '/')
                    z = x / y;
                else if (op == '^')
                    z = x** y;
                else if (op == '%')
                    z = x % y;
                document.getElementById("third").value = z;
            }
        </script>
        <style type="text/css">
            body {
                background-color: #2A2D34;
                font-family: cursive;
            }

            #main {
                padding-top: 0px;
                background-color: rgb(82, 88, 102);
                display: inline-block;
                position: relative;
                left: 10%;
                top: 10%;
                width: 80%;
                height: 80%;
                text-align: center;
                font-size: 24px;
```

```
    font-family: cursive;
    color: white;
    text-shadow: 2px 1px black;
    box-shadow: 2px 2px rgb(27, 29, 25  );
}
input::-webkit-outer-spin-button,
input::-webkit-inner-spin-button {
  -webkit-appearance: none;
  margin: 0;
}

input, select {
    border-radius: 10px;
    border-style: none;
    height: 36px;
    background-color: rgb(140, 150, 173);
    color: white;
    font-size: 24px;
    padding-left: 5px;
}
option {
    background-color: rgb(145, 157, 191);
}
h1 {
    display: block;
    background-color: rgb(74, 165, 147);
    position: relative;
    top: 0px;
    border-bottom-right-radius: 10px;
    border-bottom-left-radius: 10px;
    padding-left: 10px;
    padding-right: 10px;
    margin-top: 0px;
}
button  {
    background-color: rgb(91, 204, 181);
    border-style: none;
    border-radius: 3px;
    font-size: 24px;
    color:white;
    font-family: cursive;
    text-decoration: blink;
}
#third {
    background-color: rgba(0,0,0,0);
```

```
                font-family: cursive;
                text-shadow: 2px 2px black;
            }
            footer {
                position: absolute;
                bottom: 5px; right: 5px;
                color: white;
            }
        </style>
    </head>
    <body>
        <div id="main">
            <h1>Basic Arithmetic Operations</h1>
            <form action="" onsubmit="sum();return false;">
                First: <input type="number" id="first"><br><br>
                Operation:
                <select name="op" id="ops">
                    <option value="+">+</option>
                    <option value="-">-</option>
                    <option value="*">*</option>
                    <option value="/">/</option>
                    <option value="^">^</option>
                    <option value="%">%</option>
                </select><br><br>
                Second: <input type="number" id="second"><br><br>
                Output: <input type="number" id="third"
disabled="disabled"><br><br>
                <button type="button"
onclick="calculate()">Calculate</button>
            </form>
        </div>
    </body>
     <footer>Designed By: Harshit Joshi</footer>
</html>
```

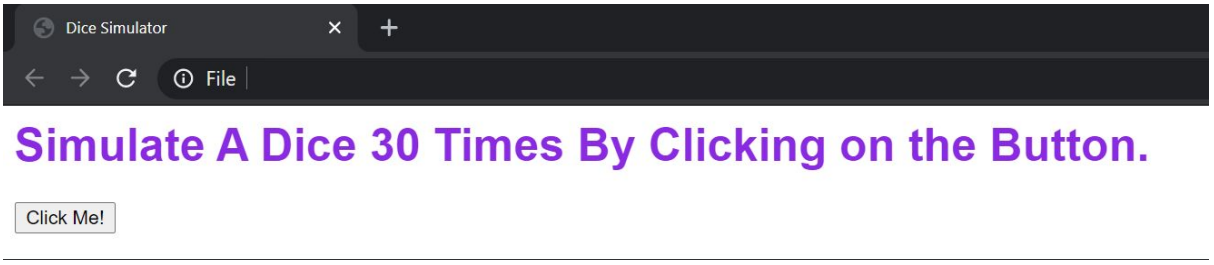

Calculator.html
File
Basic Arithmetic Operations
First: 132
Operation: +
+
-
*
/
^
%
Second: 321
Output: 453
Calculate
Designed By: Harshit Joshi

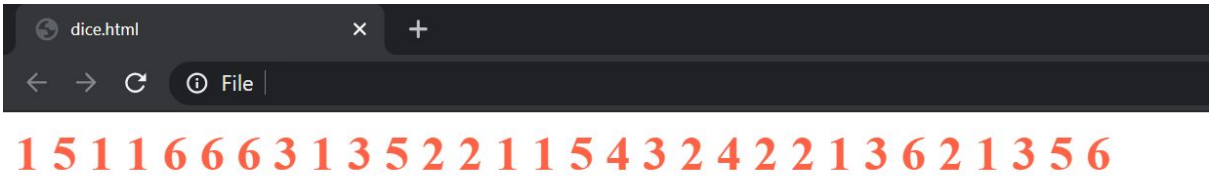

Basic Arithmetic Operations
First: 157
Operation: *
Second: 352
Output: 55264
Calculate
Designed By: Harshit Joshi


Basic Arithmetic Operations
First: 125
Operation: ^
Second: 5
Output: 30517578125
Calculate
Designed By: Harshit Joshi

Program - 4

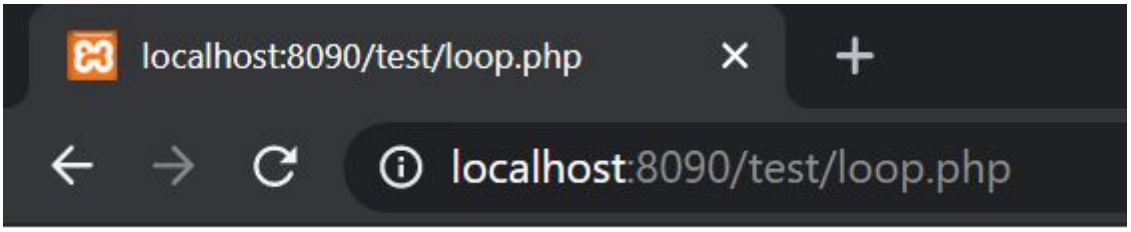
```
<html>
    <head>
        <title>Dice Simulator</title>
        <script>
            function diceGenerator()
            {
                for(var i = 0; i < 30; i++) {
                    document.write("<h1 style=\"display: inline; color:
tomato; font-family=sans-serif;\">"+
(Math.ceil(6*Math.random())).toString()+ " </h1>");
                }
            }
        </script>
    </head>
    <body>
        <h1 style="font-family: sans-serif; color:
blueviolet;">Simulate A Dice 30 Times By Clicking on the Button.</h1>
        <button onclick="diceGenerator()">Click Me!</button>
    </body>
</html>
```





Program - 5

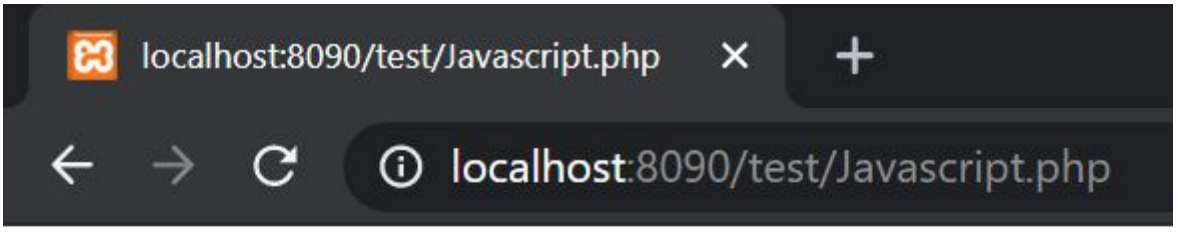
```
<html>
   <body>

      <?php
         $a = 0;
         $b = 0;

         for( $i = 0; $i<5; $i++ ) {
            $a += 10;
            $b += 5;
         }

         echo ("At the end of the loop a = $a and b = $b" );
      ?>

   </body>
</html>
```



At the end of the loop a = 50 and b = 25

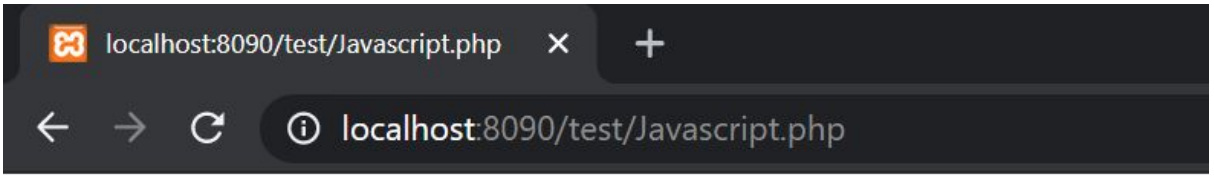
Program - 6

```
<html onload="count()">
   <?php
      set_time_limit(100);
      /* First method to create array. */
      $numbers = array( 1, 2, 3, 4, 5);

      foreach( $numbers as $value ) {
         echo "Value is $value <br />";
      }
      sleep(4);
      /* Second method to create array. */
      $numbers[0] = "one";
      $numbers[1] = "two";
      $numbers[2] = "three";
      $numbers[3] = "four";
      $numbers[4] = "five";

      foreach( $numbers as $value ) {
         echo "Value is $value <br />";
      }

   ?>
   <script>
      function count()
      {
         num[] = ["six", "seven", "eight", "nine", "ten"]
         for(int i = 0; i < length(num); i++)
            ("Value Is: " + String(num[i]) + "<br>")
      }
    </script>
   <body>
        <button onclick="count()">Press Me To Invoke Js</button>
   </body>
</html>
```



Value is 1
Value is 2
Value is 3
Value is 4
Value is 5
Value is one
Value is two
Value is three
Value is four
Value is five

Press Me To Invoke Js



Value Is: six
Value Is: seven
Value Is: eight
Value Is: nine
Value Is: ten

Program - 7

```
t = int(input())
for z in range(t):
    tom = int(input())
    n = 0
    tomOriginal = tom
    while tom % 2 == 0:
        tom = tom / 2;
        n += 1
    print(int(tomOriginal / (2**(n+1))))
```

Program - 8

```
import math

print("What Do You Want To Calculate?")
print("A - Sine")
print("B - Cosine")
print("C - Tangent")
t = input()
print("Enter Angle In Degrees: ")
ang = float(input())
pi = math.acos(-1)
if t == "A" or t == "a":
    print("sin(" + str(ang) + ") = " + str(math.sin(ang*pi/180)))

elif t == "B" or t == "b":
    print("cos(" + str(ang) + ") = " + str(math.cos(ang*pi/180)))

elif t == "C" or t == "c":
    print("tan(" + str(ang) + ") = " + str(math.tan(ang*pi/180)))
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
C:\Users\17038\Desktop\Files\AP Lab>python scientific.py
What Do You Want To Calculate?
A - Sine
B - Cosine
C - Tangent
a
Enter Angle In Degrees:
45
sin(45.0) = 0.7071067811865476

C:\Users\17038\Desktop\Files\AP Lab>
```