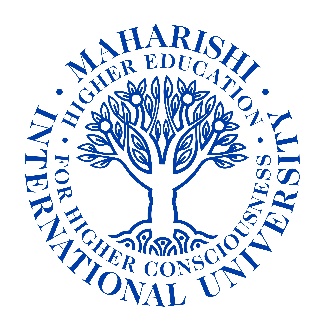
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**Assignment#2 – Programming Basics & Data Types**

Write the code for the following questions:

Question 1) Write a program that takes a user-input value and determines its data type (e.g., number, string, boolean, null, undefined). Display the detected data type to the user.

**Answer:**

**let num1 = 2;**

**let str = "Suresh";**

**let isAvailable = true;**

**let COLOR\_RED = Symbol('Green');**

**let num;**

**let nullValue = null;**

**//Displaying the detected type to the user**

**console.log(typeof(num1));**

**console.log(typeof(str));**

**console.log(typeof(isAvailable));**

**console.log(typeof(COLOR\_RED));**

**console.log(typeof(num));**

**console.log(typeof(nullValue));**

Question 2) Write a program that converts a user-input numeric string to a number, performs a mathematical operation (e.g., addition) with another number, and then displays the result. – you can convert with Number() function.

**Answer:**

let s = "5"

let n1 = Number(s);

let n2 = 5;

let sum = n1 + n2;

console.log(sum);

//Output is 10.

Question 3) Write a program that takes two numbers as input and calculates their sum. Display the result to the user.

**Answer:**

let x = Number(prompt("Please enter the first number"));

let y = Number(prompt("Please enter the second number"));

let sum = (x + y);

console.log(sum);

Question 4) Write a program that will ask the user to input a value and convert it from lb to kg and print out the result.

**Answer:**

**let x = Number(prompt("Please enter the the value:"));**

**const y = 0.453592; //since 1 lb equals 0.453592**

**let z = x \* y;**

**console.log(z);**

Question 5) Write a JavaScript program that calculates and displays the area of a circle. The program should take the radius of the circle as input from the user and then use the formula below for the area of a circle: π is approximately 3.14159.

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Description automatically generated

**Answer:**

**let radius = Number(prompt("Please enter the radius of the circle:"))**

**const MATH\_PI = 3.14159;**

**let areaOfCircle = (MATH\_PI \* radius \* radius);**

**console.log(areaOfCircle);**

---**Optional---**

Question 6) Create a program that asks the user to input a number and then determines whether the number is even or odd. Display an appropriate message to the user.

**Answer:**

**let numb = Number(prompt("Please enter the number:"));**

**if(numb % 2 == 0){**

**console.log("The entered number is even.");**

**}else{**

**console.log("The entered number is odd.")**

**}**