**Exercises**

*Lecture 1:*

Javascript basic

1. Write a JavaScript program to find the area of a triangle where lengths of the three of its sides are 5, 6, 7
2. Write a JavaScript function that reverse a number.

*Example* x = 32243;

*Expected Output :* 34223

1. Write a JavaScript conditional statement to find the largest of five numbers. Display an alert box to show the result.

*Sample numbers :* -5, -2, -6, 0, -1

*Output :* 0

1. Write a JavaScript program to sort the items of an array.

*Sample array :* var arr1 = [ 3, 8, 7, 6, 5, -4, 3, 2, 1 ];

*Sample Output :* -4,-3,1,2,3,5,6,7,8

1. Write a JavaScript function to test if a number is a power of 2.

*Test Data :*

console.log(power\_of\_2(16));

console.log(power\_of\_2(18));

console.log(power\_of\_2(256));

*Output :*

true

false

true

1. Write a JavaScript program to list the properties of a JavaScript object.

*Sample object:*

var student = {

name : "David Rayy",

sclass : "VI",

rollno : 12

};

*Sample Output:* name, sclass, rollno

1. Write a JavaScript function to get a random integer from an array of integers.
2. Write a JavaScript function to split a string and convert it into an array of words.

*Test Data :*

console.log(string\_to\_array("Robin Singh"));

["Robin", "Singh"]

1. Write a JavaScript function to test whether a date is a weekend.

*Note :* Use standard Saturday/Sunday definition of a weekend.

*Test Data :*

console.log(is\_weekend('Nov 15, 2014'));

console.log(is\_weekend('Nov 16, 2014'));

console.log(is\_weekend('Nov 17, 2014'));

*Output :*

true

true

false

1. Write a JavaScript program to compute the sum of an array of integers.

*Example :* var array = [1, 2, 3, 4, 5, 6]

*Expected Output :* 21