

Assignment - Day 10

1.	Implement Binary search using recursion in a program.	
		[Marks: 3]

2. Check if the input is a valid integer - Use exception

[Mark: 1]

3. Give a list of weight and value pairs for items and a bag with capacity.

Approach.

Calculate the maximum item value that can be carried in the bag. Note - Items can be carried in parts/fraction. Input

Items as (value, weight) pairs Items = [(60, 10), (100, 20), (120, 30)) capacity = 50;

Output =====

240

[Marks: 4]

4. Consider a sorted sequence of number with following pattern 2ⁱ × 3^j × 5^k

Approach:

Take input N from the user and output the Nth number in the sequence

[Marks: 5]