Assignment 6

A1)

```
def Banarnumber(my lst):
    result = 1
    for x in mylst:
        result = result * x
    return result

lst1 = [100, 10, 12, 1000]
list2 = [100, 121, 10000000000000000]
print(multiply list(lst1))
print(multiply list(lst2))
```

A2) Push

```
def push(self, value):
    if self.top is None:
        self.top = Node(value)
        self.minimum = value
    else:
        new_node = Node(value)
        if value < self.minimum:
            temp = (2 * value) - self.minimum
```

```
new_node.value = temp
self.minimum = value
new_node.next = self.top
self.top = new_node
```

POP

```
def pop(self):
    new_node = self.pop
    if self.top is None:
        print("Stack is empty")
    else:
        removeNode = new_node.value
        if removeNode < self.minimum:
        self.minimum = ((2*self.minimum) -
                                removeNode)
        new_node.value = ((removeNode + self.minimum)/2)
        self.top = self.top.next
        return int(new_node.value)
```

GetMin

```
def getMin(self):
    if self.top is None:
        return "Stack is empty"
    else:
        return self.minimum
```