

## Quiz 10 A

1.

```
def sumFrequencies(D):
    # Create an empty dictionary to store frequencies
    F = {}
    # Loop through word dictionary keys
    for k in D:
        # If the first letter is a key in F,
        # increment the value by the new words value
        if k[0] in F:
            F[k[0]] += D[k]
        # Else add to the dictionary
        else:
            F[k[0]] = D[k]

    return F
```

2.

```
def fibo(n):
    print n
    if n == 1:
        return 1
    if n == 2:
        return 1
    if n % 2 == 0:
        return fibo(n-2) + fibo(n-1)
    else:
        return fibo(n-1) + fibo(n-2)

# Main program
x = fibo(5)
print "The 5th Fibonacci number is:", x
```

5  
4  
2  
3  
2  
1  
3  
2  
1

The 5th Fibonacci number is: 5