

Exercise on loops and Conditional statements

1.Find the output of the following program?

```
my_dict = {}
my_dict[1] = 1
my_dict['1'] = 2
my_dict[1.0] = 4

sum = 0
for k in my_dict:
    sum += my_dict[k]

print (sum)
```

2.Find the output of the following program?

```
fruit = {}

def appleton(index):
    if index in fruit:
        fruit[index] += 1
    else:
        fruit[index] = 1

appleton('Apple')
appleton('Banana')
appleton('apple')
print (len(fruit))
```

3. Write a program using a while loop that asks the user to enter a number that is divisible by 2. Give the user a witty message if they enter something that is not divisible by 2-and make them enter a new number. Don't let them stop until they enter an even number! Print a congratulatory message when they *finally* get it right.

4. Using a for loop, write a program that prints out the decimal equivalents of 1/2, 1/3, 1/4,..., 1/10.