

Practice Set 1.2 – _Data Types and Variables

1. Write a Python program to display the first and last colors from the following list:

```
color_list = ["Red","Green","White" ,"Black"]
```

2. Given the following variables, calculate the total number of minutes.

Minutes = 10

Hours = 20

Days = 3

totalMinutes = ?

3. Write a Python program to accept a filename from the user and print the extension of that.

```
filename: hello.txt
The extension is: txt
```

Bonus: Can your program output an error if the user does not enter an extension?

4. Write a Python program to get the volume of a sphere with radius 6.
5. Write a Python program to find whether a given number (accept from the user) is even or odd, print out an appropriate message to the user.

6. Given an array 'numbers = [1, 2, 3, 5, 72, 3]', write a python program that inserts an element at the 3rd index of the array.
7. Given the following 2 arrays, combine them, remove the 3rd element, then print the length of the final array.

```
Arr1 = [23, 45, 54, 21]
Arr2 = [78, 98, 22, 1, 2]
```

8. Write a python program to determine whether a key is present in dictionary.
Example:
d = {1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60}
Check if the key '3' present in the dictionary
9. Write a program that lets a user enter 5 numbers. Print out the total sum of all of their numbers. **Bonus:** Let the user keep entering numbers until they enter 0. Then return their sum.