Lab2 solutions

Starting with while loop

```
# count=0
# while(count<3):
#     print("hello worldd")
#     count+=1
```

Infinite loop

```
# count=0
# while(count==0):
#     print("hello world")
```

While loop with list

```
# i=0
# while(i<=3):
#   print(list1[i])
#   i+=1


# list1=[1,2,34,5]
# for i in list1:
#   print(i)
```

With strings

```
# string='small'
# for i in string:
#     print(i)

# list = ["geeks", "for", "geeks"]
# for index in range(len(list)):
#    print (list[index])
```

Using continue statement

```
# for letter in 'zartasha':
#   if letter=='z' or letter=='h':
#     continue
#   print ('current letter',letter)
```

Using break statement

```
# for letter in 'geeksforgeeks':
#     if(letter=='e'):
#         break
#     print ("current letter:",letter)
```

Starting with functions

```
# def first_function(name="zartasha"):
#     print("name is", name)
# first_function('zartasha')
# first_function('aafia')
# passing default parameters
# first_function()
```

Passing parameters

```
#passing list as parameter with value and default parameter
# def list_function(names=['shabana','oneja','aadeba']):
```

```
#     for name in names:
#         print('name in list is:',name)
# mylist=['zartasha','shayan','shaheer','ali']
# list_function(mylist)
# list_function()
```

Functions that return a value

```
#function that returns a value
# def return_function(x):
#     if(x%2==0):
#      return 2
#     else:
#        return 1
# print(return_function(2) )
# print(return_function(3) )
```

Keyword arguments

```
#keyword arguments
# def key_function(name,adress,phone):
#     print('name=',name,'adress=',adress,'phone=',phone)   #you cannot concatenate multiple arguments together like 'name='name is wrong put comma between to differentiate the two
# key_function(adress='model town',name='zartasha',phone='03214391314')
```

Starting with class

```
#now coming to class
#simple
# class hello:
#  x=5
# o1=hello()
# print(o1.x)
```

Using the init function

```
#now using the init function
# class Hello:
#     def __init__(self, name, age):
#         self.name = name
#         self.age = age
#     def display(self):
#         print('name=',self.name,'age=',self.age)
# o1=Hello('zartasha',20)
# o2=Hello('shayan',4)
# o1.display()
# o2.display()
```