Python Menu

What is a menu?

Menu is a list of choices

In a program, a menu is a list of various tasks to be done

Menu program

A menu driven program has the following characteristics:

1. A list to choose from
2. Functions for each choice
3. One input statement to get choice

Elements

1. Show menu
2. Get choice
3. Decide action

Try This
part 1 of 4

```
import time
def sel001():
    print(' \nselection 1\n')
    return
def sel002():
    print(' \nselection 2\n')
    return
```

Try This
Part 2 of 4

```
def displaymenu():
    print('\n'*25)
    print(' select action ')
    print('----------------')
    print ('1  one')
    print ('2  two')
    print(' ')
    print ('9   Quit\n')
    return
```

Try This
Part 3 of 4

```
def menu():
    selection = 0
    displaymenu()
     selection = input(' Select 1,2 or 9 [to quit]: ')
     if (selection =='1' ):
            sel001()
     elif (selection == '2'):
            sel002()
      elif (selection == '9'):
             return
      else:
            print(' invalid selection, try again')
return
```

Try This
Part 4 of 4

```
def main():
    menu()
    return
main()
```

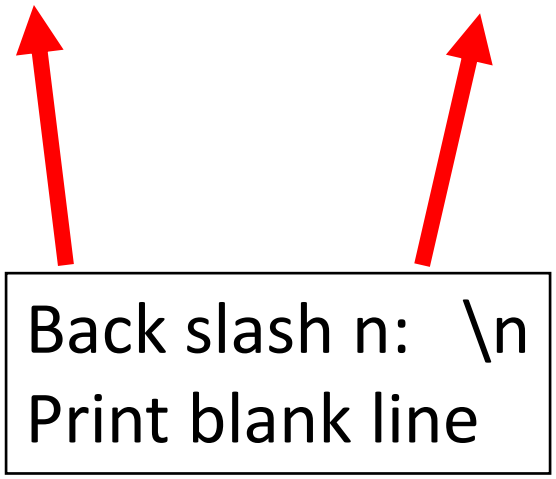
Menu Misc

1. Moving menu to middle
2. Add timer to see result
3. Spacing on output

Spacing

Add \n to print line

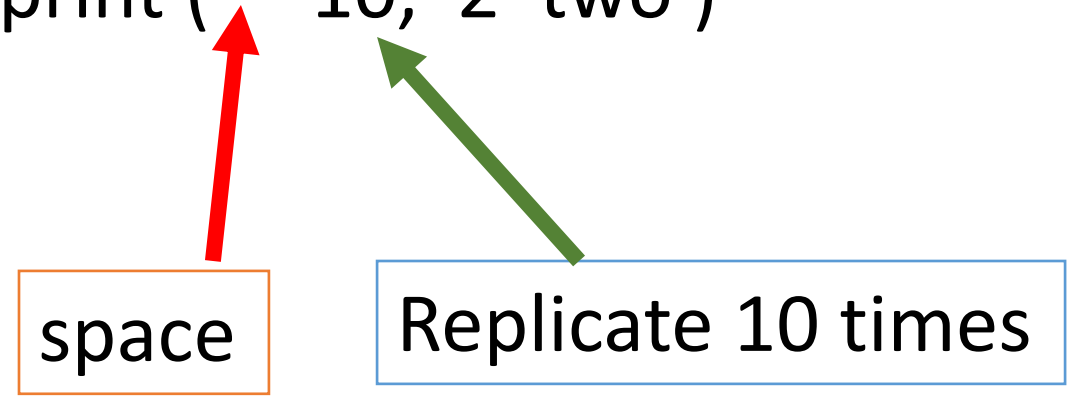
```
print(' \nselection 2\n')
```



Moving list towards middle

Add ‘ ‘*10 (ten spaces)

print (' '*10, '2 two')



Sleep

Stop the program for a few second
(so we can observe the results)

Sleep

Import time

At beginning of program

time.sleep(10)

command

Time in seconds

Enhanced program part 1 of

```
import time
def sel001():
    print(' \nselection 1\n')
    return
def sel002():
    print(' \nselection 2\n')
    return
def sel003():
    print(' \nselection 3\n')
    return
def sel004():
    print(' \nselection 4\n')
    return
def sel005():
    print(' \nselection 5\n')
    return
```

menu02

EP
Part 2 of

```
def displaymenu():
    print('\n'*25)
    print(' '*10,' select action ')
    print(' '*10,'----------------')
    print (' '*10,'1  one')
    print (' '*10,'2  two')
    print (' '*10,'3  three')
    print (' '*10,'4  four')
    print (' '*10,'5  five')
    print(' ')
    print (' '*10,'9   Quit\n')
    return
```

EP
Part 3 of

```
def menu():
    selection = 0
    displaymenu()
    selection = input(' Select 1,2,3,4,5 or 9 [to quit]: ')
    if (selection =='1' ):
        sel001()
    elif (selection == '2'):
         sel002()
    elif (selection == '3'):
         sel003()
     elif (selection == '4'):
         sel004()
     elif (selection == '5'):
          sel005()
      elif (selection == '9'):
           return
      else:
        print(' invalid selection, try again')
    time.sleep(10)
    return
```

EP
Part 4 of 4

```
def main():
    menu()
    return
main()
```

done