23rd_september_python_whileloop_break

February 10, 2024

[ ]:
```
#while True:
  #  print("this is my first while loop")
```

[1]:
```
a=10
while a>=1:
    print(a)
    a=a-1
```

```
10
9
8
7
6
5
4
3
2
1
```

[4]:
```
s=0
n=1
t=5
while n <= t :
    s=s+n
    n=n+1
print(s)
```

```
15
```

[5]:
```
s=1
n=1
t=5
while n <= t :
    s=s*n
    n=n+1
print(s)
```

```
120
```

[6]:
```
n=int(input("enter a number for which you are looking for table"))
i=1
while i<=10:
    product=n * i
    print(n,'*',i,'=',product)
    i=i+1
```

```
enter a number for which you are looking for table 12
12 * 1 = 12
12 * 2 = 24
12 * 3 = 36
12 * 4 = 48
12 * 5 = 60
12 * 6 = 72
12 * 7 = 84
12 * 8 = 96
12 * 9 = 108
12 * 10 = 120
```

[7]:
```
import time
s=5
while s>0:
    print(s)
    time.sleep(1)
    s=s-1
print("break time is over")
```

```
5
4
3
2
1
break time is over
```

[1]:
```
#vending machine
```

[2]:
```
money_in_hand=20
while money_in_hand >= 5:
    print(money_in_hand)
    choice=int(input("enter your choice(1.biscuit, 2.chips, 3.redbull, 4.cok)"))
    if choice ==1:
        print("take your biscuit")
        money_in_hand=money_in_hand-4
    elif choice ==2:
        print("take your chips")
        money_in_hand=money_in_hand-5
    elif choice ==3:
```

```
        print("take your redbull")
        money_in_hand=money_in_hand-10
    elif choice ==4:
        print("take your coke")
        money_in_hand=money_in_hand-8
    else:
        print("you have not entered the correct choice")
print("you dont have enough balance in your vallet")
```

```
20

enter your choice(1.biscuit, 2.chips, 3.redbull, 4.cok) 4

take your coke
12

enter your choice(1.biscuit, 2.chips, 3.redbull, 4.cok) 2

take your chips
7

enter your choice(1.biscuit, 2.chips, 3.redbull, 4.cok) 1

take your biscuit
you dont have enough balance in your vallet
```

[2]:
```
import time
s=5
while s > 0:
    print(s)
    time.sleep(1)
    s=s-1
print("break time is over")
```

```
5
4
3
2
1
break time is over
```

[ ]:
```
import time
stop=False
while not stop:
    print("enter s to stop the timer")
    time.sleep(1)
    press_stop= input("enter s for stop")
    if press_stop.lower() =='s':
        stop=True
        print("start the class break is over")
```

```
enter s to stop the timer

enter s for stop 6

enter s to stop the timer
```

[1]:
```
user_id="shamnu"
password="shamnu@123"
counter=1
user_id_check=False
userid=input("enter your user id for account")
while counter <=3:

    if userid==user_id:
        user_id_check=True
    else:
        print("your user id is incorrect try again")
        break
    if user_id_check==True:
        pswd=input("enter your password for respective user id")
        if pswd==password:
            print("you have logged in successfully")
            break
        counter=counter+1
if counter>3:
    print("you have attempted maximum times and your account is locked")
```

```
enter your user id for account shamnu
enter your password for respective user id shamnu@123

you have logged in successfully
```

[2]:
```
todo_list=[]
end_of_todo='n'
while end_of_todo!='y':
    todo_item =input("enter your todo task")
    todo_list.append(todo_item)
    end_of_todo = input("enter n id you want to add in todolist or enter y if␣
 ↪you dont wantto add")
print("my todo list is",todo_list)
```

```
enter your todo task reading
enter n id you want to add in todolist or enter y if you dont wantto add n
enter your todo task drawing
enter n id you want to add in todolist or enter y if you dont wantto add flying
enter your todo task flying
enter n id you want to add in todolist or enter y if you dont wantto add y

my todo list is ['reading', 'drawing', 'flying']
```

#reccursive call

[1]:
```
def fact(n):
    if n==0:
        return 1
    else :
        return n*fact(n-1)
```

[2]:
```
fact(5)
```

[2]: 120

[3]:
```
def fib(n):
    if n<=1:
        return n
    else :
        return fib(n-2)+fib(n-1)
```

[4]:
```
fib(5)
```

[4]: 5

[1]:
```
123121
```

[1]: 123121

[3]:
```
def sum_of_digit(n):
    sum=0
    while n!=0:
        d=n%10
        sum=sum+d
        n=n//10
    return sum
sum_of_digit(123)
```

[3]: 6

[4]:
```
def get_Sum(n):

    sum=0
    for digit in str(n):
        sum += int(digit)
    return sum
```

[5]:
```
get_Sum(234)
```

[5]: 9

[6]:
```
123//10
```

[6]: 12

[7]:
```
123/10
```

[7]: 12.3

[8]:
```
def sum_digit(n):
    if n<=9:
        return n
    else :
        return n % 10 + sum_digit(n//10)
```

[9]:
```
sum_digit(345)
```

[9]: 12

[10]:
```
l = [3,4,5,6,76]
```

[11]:
```
max(l)
```

[11]: 76

[13]:
```
def max_find(l):
    if len(l) == 1:
        return l[0]
    else :
        return max(l[0],max_find(l[1:]))
```

[15]:
```
max_find([4,5,8,6,6,7,3,4,5,6,90])
```

[15]: 90

[16]:
```
5**2
```

[16]: 25

[17]:
```
5**5
```

[17]: 3125

[18]:
```
pow(5,5)
```

[18]: 3125

[22]:
```
def power_fun(n,k):
    if k == 0:
        return 1
    else :
        return n * power_fun(n ,k-1)
```

[23]:
```
power_fun(2,4)
```

[23]: 16

[ ]:
```

```