Loop

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Write a "for" loop to iterate and print value from 100 to 200 (Points 5)
for i in range (100,200):
    print(i)
100
101
102
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Write a for loop to iterate and print the odd numbers between from 0 to 100 (Points 10)
for i in range(100):
    if (i%2==1): print(i)
1
3
5
7
9
11
13
15
17
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99
Write a "While" loop to iterate and print value from 0 to 50 (Points 5)
i=0
while i < 50:
    print(i)
    i=i+1
0
1
2
3
4
5
6
7
8
9
10
11
12
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14
15
16
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```

```
Loop with Conditional Statement
Given the list below
age=[10,15,30,90,100,10,20]
Loop through the list and print all of the value (Points 5)
age=[10,15,30,90,100,10,20]
for x in age:
    print(x)
10
15
30
90
100
10
20
Using loop and conditional statement, print all the value higher than 50 (Points 10)
for x in age:
    if (x>50):
         print(x)
```

```
90
```

```
100
Using loop and conditional statement, replace all the value lower than 50 into "Low
Value" (Points 15)
new age=[]
for x in age:
    if(x<50):
         new age.append("Low Value")
         new_age.append(x)
new age
['Low Value', 'Low Value', 'Low Value', 90, 100, 'Low Value', 'Low
Value'l
Function
Create a function to find the area of a rectangle. (Points 15)
def area(l,w):
    result=l*w
    return result
area(3,4)
12
Create a function to transform string into uppercase. This function will have one parameter
input:
x= string of word
i.e x="I love food" => x="I LOVE FOOD"
(Points 15)
def UC(x):
    x=x.upper()
    return x
UC("I love food")
'I LOVE FOOD'
Create a function called "calculate". This function will have three parameter input:
```

- 1. a= a number input
- 2. b= a number input
- method = "+", "-", "*", "/"

The function will return the value based on the method chosen. i.e if "*" is in input parameter then the function will return a+b (Points 20)

```
def calculate(a,b,method):
    if (method == "+"):
        result=a+b
    elif (method == "-"):
        result=a-b
    elif (method == "*"):
        result=a*b
    elif (method == "/"):
        result=a/b
    return result

print(calculate(15,3,"+"))
print(calculate(15,3,"*"))
print(calculate(15,3,"*"))
18
12
45
5.0
```