Certificate Course in Machine Learning using Python [6 Weeks]

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Certificate Course in Machine Learning using Python [6 Weeks] Day 8

Exercises and Practice Problems in Python

Exercises and Practice Problems in Python Exercise and Practical Problems in Python (List, If and For Loop)

Q. Write a Python program to check whether a number is even or odd

```
number=int(input("Enter a Number:"))
if(number\%2==0):
 print("Number is Even")
else:
  print("Number is odd")
```

Q. Write a Python program to swap two numbers

```
n1=int(input("Enter First Number:"))
n2=int(input("Enter Second Number:"))
print("Before swap:")
print('n1=', n1,'and', 'n2=', n2)
temp=n1
n1=n2
n2=temp
print("After swap:")
print('n1=', n1,'and', 'n2=', n2)
```

Q. Write a Python program to input age of three brothers and find youngest brother.

```
print(" Enter the age of 1st brother:")
b1 = int(input())
print("\n Enter the age of 2<sup>nd</sup> brother :")
b2 = int(input())
print("\n Enter the age of 3<sup>rd</sup> brother:")
```

```
b3 = int(input())
      if (b1 < b2 \text{ and } b1 < b3):
             print("The 1st brother is youngest.")
      elif (b2<b1 and b2<b3):
             print("The 2<sup>nd</sup> brother is youngest.")
      else:
             print("The 3<sup>rd</sup> brother is youngest.")
Q. Write a Python program to calculate Factorial of a given number
```

```
n=int(input("Enter First Number:"))
p=1
for i in range(1,n+1):
  p=p*i
print("Factorial is:",p)
```

Q. Write a Program to find whether a given number is prime or not

```
n=int(input("Enter First Number:"))
for i in range(2,n):
 if(n\%i==0):
    print("It is not a prime number")
    break
else:
 print("It is a prime number")
```

Q. Create a list of 10 elements marks=[78,87,89,98,67,65,45,56,77,89]. Create another list of 5 elements. Write a Python program to append the new list at the end of the marks list.

```
marks=[78,87,89,98,67,65,45,56,77,89]
print("Old Marks:", marks)
new_list=[]
for i in range(5):
  i=int(input('List Member:'))
  marks.append(i)
print("Updated Marks:", marks)
```

Q. Write a Python program to interchange first and last element of list.

```
temp=marks[0]
marks[0]=marks[-1]
marks[-1]=temp
print(marks)
```

- Q. Perform the following operations on marks list:
 - a. Insert new marks at index 7 and 10.

```
marks[7]=121
marks[10]=110
print(marks)
```

b. Remove the mark 98 from the list. Remove the element at index 8 and 13.

#Remove the mark 98 from the list.

```
marks.remove(98)
marks
#Remove the element at index 8 and 13.
marks.pop(8)
marks.pop(12)
marks
```

c. Remove all elements from the list.

```
marks.clear()
marks
```

Q. Write a Python program to count occurrences of an element in a list.

```
l=[12,23,34,56]
count=0
for i in l:
    count=count+1
print(count)
```

Q. Write a Python program to sum all elements of a list.

#Without using in-built function

```
l=[12,23,34,56]
s=0
```

Q. Write a Python program to print only even numbers in a list.

```
l1=[12,23,34,56,46,19]
l2=[]
for i in l1:
    if(i%2==0):
        l2.append(i)
print("Old List:",l1)
print("Even Number List:",l2)
```

Q. Write a Python program to find average or mean of a list data.

```
l=[12,23,34,56]
sum=0
count=0
for i in l:
    sum=sum+i
    count=count+1
average=sum/count
print(average)
```

Q. Write a Python program to input some data from user and put that into list.

```
n=int(input("How many data in the list?"))
l=[]
for i in range(1,n+1):
    x=int(input("Enter the data:"))
    l.append(x)
print(l)
```

Q. Write a Python program to find maximum and minimum element of a list.

#Without using in-built function

```
l=[12,34,56,23]
          maxi=l[0]
          for i in l:
            if(i>maxi):
              maxi=i
          print('Maximum Element:', maxi)
          mini=l[0]
          for i in l:
            if(i<mini):
              mini=i
          print(('Minimum Element:', mini)
          #Using max() and min()
          print("Maximum Element:", max(l))
          print("Minimum Element:", min(l))
Next
                                           PREVIOUS ACTIVITY
                                           ■ Day 7: Assignment
Jump to...
                                             NEXT ACTIVITY
                                    Python Demonstration Code: Day 8 ▶
```

Stay in touch

Contact Us

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