

Day 6:

Input :from 10 to 12

51. How to select the integers from string

<pre>str1=input("enter string:") lenstr=len(str1) mynum=[] x=0 while x<lenstr: num=" " symbol=str1[x] while '0'<=symbol<='9': num=num+symbol x=x+1 if x<lenstr: symbol=str1[x] else: break x=x+1 #line 15 if num!=" ": mynum.append(int(num)) print(mynum)</pre>	<p>S1: from 1 0 t o 1 2 0123456789101112 (index)</p> <p>lenstr=13</p> <p>x=1</p> <p>while 0<13:</p> <p>symbol=str1[0]=f</p> <p>while '0'<='f'<='9':</p> <p>false go to line 15</p> <p>S2: x=1</p> <p>while 1<13:</p> <p>symbol=str1[1]=r</p> <p>while loop false</p> <p>go to line 15</p> <p>similarly for the o, m also</p>	<p>S3:when index is at 5</p> <p>x is also 5</p> <p>while 5<13:</p> <p>symbol=str1[5]=1</p> <p>while '0'<='1'<='9':</p> <p>num=" "+1</p> <p>x=5+1=6</p> <p>S4:x=6</p> <p>while 6<13:</p> <p>symbol=0</p> <p>'0'<='0'<='9':</p> <p>num='1'+0=10</p> <p>Similarly remaining steps..</p>
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52. How to sort words according to their length

<pre>str1=input("enter word:") first=str1.split() lenstr=len(first) for i in range(lenstr-1): for j in range(lenstr-1-i): if len(first[j])>len(first[j+1]): first[j],first[j+1]=first[j+1],first[j] print(" ".join(first))</pre>	<p>str1=Good bye to you</p> <p>first= ['Good', 'bye', 'to', 'you']</p> <p>lenstr=4</p> <p>for i in range(4-1):</p> <p>for j in range(4-1-0):</p> <p>if (first[0]>first[1]):</p> <p>swap the words....</p> <p>finally prints the words....</p>
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53. How to find the longest word in string

str1=input("enter string:")	str1=hello manjunath garu
first=str1.split()	observe the previous problem
lenstr=len(first)	lenstr=3
long=0	long=0
for i in range(1,lenstr):	for i in range(1,3):
if len(first[long])<len(first[i]):	if first[0]<first[1]: #length of string
long=i	long=1
	suppose len("hello")<len("manjunath")
print(first[long])	true print manjunath

54.How to get the percentage of uppercase and lowercase

str1=input("enter string:")	Str1=Hello World TODAY
lenstr1=len(str1)	lenstr1=17
lower=upper=0	
for i in str1:	for i in Hello...
if 'a'<=i<='z':	if loop satisfies the lower and upper case characters and then
lower=lower+1	increments the lower and upper value..
elif 'A'<=i<='Z':	FINALLY WE THE LOWER AND UPPER VALUE PERCENTAGE
upper=upper+1	

print("Lower percentage:%.2f"%((lower/lenstr1)*100))

print("Upper percentage:%.2f"%((upper/lenstr1)*100))

65. How to check if the given string is palindrome or not

str1=input("enter string:")	str1=abcdcba
lenstr1=len(str1)	len=7
for i in range(lenstr1//2):	for i in range(7//2):
if str1[i]!=str1[-1-i]:	if str1[0]!=str1[-1-0]:
print("this is not palindrome")	S2:for i in range(3):
break	if str1[1]!=str1[-1-1]:
else:	S3: for i in range(3):
print("This is palindrome ")	if str1[2]!=str1[-3]: # True finally it is satisfies all values so print
	palindrome

58. How to generate the random numbers using array

```
from random import randint
```

```
x=10
```

```
y=[]
```

```
for i in range(x):
```

```
    y.append(randint(1,100))
```

```
for i in y:
```

```
    print(i,end=" ")
```

```
print()
```

```
print("Minimum value is ",min(y))
```

```
# We insert the random library to write the random numbers
```

```
x=10
```

```
# Initialise the y as empty list
```

```
for i in range(10):
```

```
    loop iterates then return the 10 random numbers..
```

```
for i in y:
```

```
    print the random numbers with whitespaces like 1 2 with list
```

```
# min(all the random numbers)=get the smallest number
```

60. How to get the positive numbers out of negative numbers

```
import random
```

```
x=[]
```

```
for i in range(10):
```

```
    x.append(int(random.random()*10)-6)
```

```
print(x,end=" ")
```

```
print()
```

```
neg=[]
```

```
pos=[]
```

```
for i in x:
```

```
    if i<0:
```

```
        neg.append(i)
```

```
        neg.sort()
```

```
    elif i>=0:
```

```
        pos.append(i)
```

```
        pos.sort()
```

```
print("Negative numbers:",neg)
```

```
print("Positive numbers:",pos)
```

```
this line gives the randomly 10 nbrs with is less than 4
```

```
[3, -6, -1, 2, -2, -6, 3, 0, -2, -2]
```

```
Intialize the neg empty list
```

```
Intialize the pos empty list
```

```
for i in x:
```

```
    if i is less than 0:
```

```
        negative values will print
```

```
        then make it sort
```

```
    if i is greater than or equal to 0:
```

```
        positive values will print
```

```
        then make it sorted order
```

```
Finally we the values of negative and positive numbers
```