sum of all even numbers that falls between two numbers (exclusive both numbers) entered from the user using while loop.

```
m=int(input("enter m value")) # 5
n=int(input("enter n value")) # 10
num=m+1
s=0
while num<n:
    if num%2==0:
        s+=num
    num=num+1

print(f'sum of even numbers from {m+1} and {n-1} is {s}')</pre>
```

Write a program to find the sum of the digits of a number accepted from the user.

```
123=1+2+3=6

421=4+2+1=7

123%10=3 123//10=12

12%10=2 12//10=1

1%10=1 1//10=0

num=int(input("Enter any number"))

s=0

while num>0:

r=num%10

s=s+r

num=num//10

print(f'sum of digits {s}')
```

Write a program to find the product of the digits of a number accepted from the user.

```
num=int(input("Enter any number")) # 123=6
s=1
while num>0:
r=num%10
```

```
s=s*r
num=num//10
print(f'product of digits {s}')
```

Write a program to reverse the number accepted from user using while loop.

```
123 → 321
               rev=0
123%10=3
               rev=(rev*10)+3=3
                                     123//10=12
               rev=(3*10)+2=32 12//10=1
12%10=2
               rev=(32*10)+1=321
1%10=1
                                     1//10=0
num=int(input("Enter any number"))
rev=0
while num>0:
  r=num%10
  rev=(rev*10)+r
  num=num//10
print(f'Reverse Number {rev}')
```

Finding input number is pal or not

```
num=int(input("Enter any number")) # 121
num1=num
rev=0
while num>0:
    r=num%10
    rev=(rev*10)+r
    num=num//10

if num1==rev:
    print("pal")
else:
    print("not pal")
Output:
Enter any number121
```

```
pal
>>>
=== RESTART: C:/Users/user/Desktop/python6pm/py55.py ==
Enter any number123
not pal
>>>
```

Write a program to display the number names of the digits of a number entered by user, for example if the number is 231 then output should be Two Three One

```
num=int(input("Enter any number"))
num1=num
rev=0
while num>0:
  r=num%10
  rev=(rev*10)+r
  num=num//10
while rev>0:
  d=rev%10
  if d==0:
     print("Zero",end=' ')
  elif d==1:
     print("One",end=' ')
  elif d==2:
     print("Two",end=' ')
  elif d==3:
     print("Three",end=' ')
  elif d==4:
     print("Four",end=' ')
  elif d==5:
     print("Five",end=' ')
  elif d==6:
     print("Six",end=' ')
  elif d==7:
     print("Seven",end=' ')
  elif d==8:
     print("Eight",end=' ')
  elif d==9:
```

```
print("Nine",end=' ')
rev=rev//10
```

https://csiplearninghub.com/questions-of-while-loop-in-python/

for loop

for statement or keyword

The <u>for</u> statement is used to iterate over the elements of a sequence (such as a string, tuple or list) or other iterable object:

Syntax:

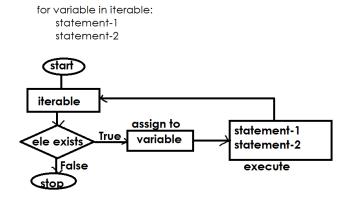
for variable in iterable:

statement-1

statement-2

iterable is an object which allows to read individual members all collections are iterables

eg: string,list,tuple,bytes,bytesarray,set,frozenset,dictionary



Example:

```
for x in "NARESH I TECHNOLOGIES":
    print(x,end=' ')
```

Output:

NARESH I TECHNOLOGIES

write a program to count how vowels exists input string str1=input("Enter any string") # java c=0

for ch in str1:

```
if ch in "aeiouAEIOU":
     c+=1
print(f'count of vowel {c} in {str1}')
Output:
Enter any stringjava
count of vowel 2 in java
=== RESTART: C:/Users/user/Desktop/python6pm/py57.py ==
Enter any stringpython
count of vowel 1 in python
>>>
Example:
# write a program to count number of alphabets, digits and special character
# within string
# nit123$ ==> 3,3,1
str1=input("Enter any string")
dc.ac.sc=0.0.0
for ch in str1:
  if ch>='a' and ch<='z' or ch>='A' and ch<='Z':
     ac+=1
  elif ch>='0' and ch<='9':
     dc+=1
  else:
     sc+=1
print(f'alpahbet count {ac}')
print(f'digit count {dc}')
print(f'special character count {sc}')
Output:
Enter any stringpython 3.10
alpahbet count 6
digit count 3
special character count 2
>>>
```

Write a program to convert string into uppercase Write a program to convert string into lowercase Write a program to capitalize string