## Python assignment

Q1. 1 .wap inputting your name which will be printed in the reverse order String manipulation

```
def reverse(s):
  if len(s) == 0:
    return s
  else:
    return reverse(s[1:]) + s[0]
s = "tribhuwan"
print ("The original string is:",end="")
print (s)
print ("The reversed string(using recursion) is : ",end="")
print (reverse(s))
Q2. Create a Calculator program using four functions
def add(x, y):
 return x + y
def sub(x, y):
 return x - y
def mult(x, y):
 return x * y
def div(x, y):
 try:
   return x / y
 except:
   print("invalid input",y)
print("Select operation:")
print("1.Add")
print("2.Subtract")
print("3.Multiply")
print("4.Divide")
a = input("Enter choice(1/2/3/4): ")
n1 = float(input("Enter first number: "))
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```
n2 = float(input("Enter second number: "))
if a== '1':
 print(n1,"+",n2,"=", add(n1,n2))
elif a== '2':
 print(n1,"-",n2,"=", sub(n1,n2))
elif a == '3':
 print(n1,"*",n2,"=", mult(n1,n2))
elif a == '4':
 print(n1,"/",n2,"=", div(n1,n2))
else:
 print("Invalid input")
3. List Manipulation program identify Even & Odd Number separately
def EvenOdd(a):
  n = int(input("Enter number of elements:"))
  for i in range(1, n + 1):
     b = int(input("Enter element:"))
     a.append(b)
  even = []
  odd = []
  dict = {}
  evenadd = 0
  oddadd = 0
  evencount = 0
  oddcount = 0
  for j in a:
    if (j % 2 == 0):
      even.append(j)
```

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evenadd += j
evencount += 1

else:
odd.append(j)
oddadd += j
oddcount = oddcount + 1

print("The even list", even)

print("The odd list", odd)

dict["even"] = even

dict["odd"] = odd

dict["even Addition"] = evenadd

dict["odd Additoin"] = oddadd

dict["Evencount"] = evencount

dict["Oddcount"] = oddcount

print(dict)
```