Day 2

Assignment -2

Binary

bin = 0111

print("The decimal value of", dec, "is:")

print(dec(dec), "in decimal.")

print(oct(dec), "in octal.")

print(hex(dec), "in hexadecimal.")

Combine and store

test\_list1 = [1, 5, 6, 9, 11]

test\_list2 = [3, 4, 7, 8, 10]

print("The original list 1 is : " + str(test\_list1))

print("The original list 2 is : " + str(test\_list2))

size\_1 = len(test\_list1)

size\_2 = len(test\_list2)

res = []

i, j = 0, 0

while i < size\_1 and j < size\_2:

if test\_list1[i] < test\_list2[j]:

res.append(test\_list1[i])

i += 1

else:

res.append(test\_list2[j])

j += 1

res = res + test\_list1[i:] + test\_list2[j:]

print("The combined sorted list is : " + str(res))

Electricity bill

units = int(input("Enter the number of units consumed: "))

if units < 100:

amount = 20

elif units <= 200:

amount = 20 + (units - 100) \* 3

elif units <= 400:

amount = 20 + 300 + (units - 200) \* 5

elif units <= 500:

amount = 20 + 300 + 1000 + (units - 400) \* 7

else:

amount = 20 + 300 + 1000 + 700 + (units - 500) \* 10

print("Your electricity bill is: Rs.", amount)

Fact

for i in range(10,0,-1):

print(i)