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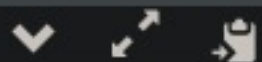
Subject : Python (KCS - 453)

Prac - 1:

AIM: WAP a python program to perform selection sort.

PROGRAM:

```python
def selectionSort( itemsList ):
    n = len( itemsList )
    for i in range( n - 1 ):
        minValueIndex = i

        for j in range( i + 1, n ):
            if itemsList[j] < itemsList[minValueIndex]:
                minValueIndex = j

        if minValueIndex != i :
            temp = itemsList[i]
            itemsList[i] = itemsList[minValueIndex]
            itemsList[minValueIndex] = temp

    return itemsList


el = [21,6,9,33,3]

print(selectionSort(el))
```
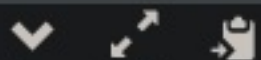
```
[3, 6, 9, 21, 33]


...Program finished with exit code 0
Press ENTER to exit console.
```

Prac - 2:

AIM: WAP a python program to find GCD of 2 numbers.

PROGRAM:

```python
def find_gcd(x, y):

    if x > y:
        smaller = y
    else:
        smaller = x
    for i in range(1, smaller+1):
        if((x % i == 0) and (y % i == 0)):
            hcf = i
    return hcf

num1 = 33
num2 = 27

print("The GCD is", find_gcd(num1, num2))
```

```
The GCD is 3


...Program finished with exit code 0
Press ENTER to exit console.
```