1. Python Program for Cycle Sort
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Here are Python programs for each of the tasks you’ve listed:

### 1. Python Program for Cycle Sort

```python

Def cycleSort(arr):

Writes = 0

For cycleStart in range(0, len(arr) – 1):

Item = arr[cycleStart]

Pos = cycleStart

For I in range(cycleStart + 1, len(arr)):

If arr[i] < item:

Pos += 1

If pos == cycleStart:

Continue

While item == arr[pos]:

Pos += 1

Arr[pos], item = item, arr[pos]

Writes += 1

While pos != cycleStart:

Pos = cycleStart

For I in range(cycleStart + 1, len(arr)):

If arr[i] < item:

Pos += 1

While item == arr[pos]:

Pos += 1

Arr[pos], item = item, arr[pos]

Writes += 1

Return writes

Arr = [1, 8, 3, 9, 10, 10, 2, 4]

N = len(arr)

cycleSort(arr)

print(“Sorted array:”, arr)

```

### 2. Python Program for Stooge Sort

```python

Def stoogeSort(arr, l, h):

If l >= h:

Return

If arr[l] > arr[h]:

Arr[l], arr[h] = arr[h], arr[l]

If h-l+1 > 2:

T = (h-l+1) // 3

stoogeSort(arr, l, h-t)

stoogeSort(arr, l+t, h)

stoogeSort(arr, l, h-t)

arr = [2, 4, 5, 3, 1]

n = len(arr)

stoogeSort(arr, 0, n-1)

print(“Sorted array:”, arr)

```

### 3. Python Program to Print the Pattern ‘G’

```python

Def printPatternG(n):

For row in range(n):

For col in range(n):

If (col == 0 or (col == n-1 and (row != 0 and row != n-1)) or

((row == 0 or row == n-1) and (col > 0 and col < n-1)) or

(row == n//2 and col > n//2)):

Print(“\*”, end=””)

Else:

Print(end=” “)

Print()

printPatternG(7)

```

### 4. Python Program to Print an Inverted Star Pattern

```python

Def invertedStarPattern(n):

For I in range(n, 0, -1):

Print(‘\*’ \* i)

N = 5

invertedStarPattern(n)

```

### 5. Python Program to Print Double-Sided Staircase Pattern

```python

Def doubleSidedStairCase(n):

For I in range(1, n + 1):

Print(“ “ \* (n – i) + “\*” \* I + “\*” \* i)

N = 5

doubleSidedStairCase(n)

```

### 6. Python Program to Print with Your Own Font

```python

From PIL import Image, ImageDraw, ImageFont

Def printWithFont(text, font\_path=”arial.ttf”, font\_size=36):

Image = Image.new(‘RGB’, (600, 100), color = (255, 255, 255))

Draw = ImageDraw.Draw(image)

Font = ImageFont.truetype(font\_path, font\_size)

Draw.text((10, 10), text, font=font, fill=(0, 0, 0))

Image.show()

printWithFont(“Hello, World!”)

```

### 7. Get Current Date and Time Using Python

```python

From datetime import datetime

Now = datetime.now()

Print(“Current Date and Time:”, now.strftime(“%Y-%m-%d %H:%M:%S”))

```

### 8. Python Program to Find Yesterday’s, Today’s, and Tomorrow’s Date

```python

From datetime import date, timedelta

Today = date.today()

Yesterday = today – timedelta(days=1)

Tomorrow = today + timedelta(days=1)

Print(“Yesterday:”, yesterday)

Print(“Today:”, today)

Print(“Tomorrow:”, tomorrow)

```

### 9. Python Program to Convert Time from 12 Hour to 24 Hour Format

```python

Def convertTo24Hour(time):

In\_time = datetime.strptime(time, “%I:%M %p”)

Out\_time = datetime.strftime(in\_time, “%H:%M”)

Return out\_time

Time = “02:30 PM”

Print(“24 Hour Format:”, convertTo24Hour(time))

```

These programs cover a variety of tasks, from sorting algorithms to date and time manipulation, and pattern printing.