Python Use Cases

# Use case 1

A screenshot of a cell phone

Description automatically generated

1. name = input("Please enter the NAME of the Student: ")
2. dept= input("Please enter the Student's Department: ")
3. col = input("Please enter the College name of the Student: ")
4. **print**("Name: ", name)
5. **print**("Department: ", dept)
6. **print**("College: ", col)

Use Case 2

A screenshot of a cell phone

Description automatically generated

1. # Get the numbers
2. list = (20,30)
3. # sum(list or numbers)
4. mysum = sum(list)
5. #print the variable mysum
6. print("Sum of 20 and 30 is:", mysum)

Use Case 3

A screenshot of a cell phone

Description automatically generated

1. # import the math module
2. **import** math
4. # enter the number
5. nbr = int(input ("Enter the number: "))
7. # print the square root of Number
8. sqrt=float(math.sqrt(nbr))
9. **print**("Square root of the number "+str(nbr)+" is "+str(round (sqrt,3)))
11. # print the square of Number
12. square=float(math.pow(nbr,2))
13. **print**("Square of the number "+str(nbr)+" is "+str(round (square,3)))

Use Case 4

A screenshot of a social media post

Description automatically generated

1. # Get the integer value
2. nbr = int(input("Enter an integer number : "))
3. a1 = int( "%s" % nbr )
4. a2 = int( "%s%s" % (nbr,nbr) )
5. a3 = int( "%s%s%s" % (nbr,nbr,nbr) )
6. **print** ("Value of "+str(nbr)+"+"+str(nbr)+str(nbr)+"+"+str(nbr)+str(nbr)+str(nbr)+" is "+str(a1+a2+a3))

Use Case 5

A screenshot of a cell phone

Description automatically generated

1. # Store the string
2. str="Hello"
3. # Print First char of the string
4. **print** ("First char of the string "+str+" is "+str[0])
5. # Print Last char of the string
6. **print** ("Last char of the string "+str+" is "+str[len(str)-1])

Use Case 6

A screenshot of a cell phone

Description automatically generated

1. #Store the string
2. str = "Hello"
3. #Print string in reverse
4. **print** ("Reversed String of " + str + " is " + str[::-1])

Use Case 7

A screenshot of a cell phone

Description automatically generated

1. # Print a list of 3 Zeros - Method 1
2. **print** ([0] \* 3)
3. # Print a list of 3 Zeros - Method 2
4. str = [0 **for** i **in** range(3)]
5. **print** (str)

Use Case 8

A screenshot of a social media post

Description automatically generated

1. # Finding and Replacing Element in List
2. listx=[1,2,3,4,"hello"]
3. listx[4]="goodbye"
4. **print** (listx)

Use Case 9

A screenshot of a cell phone

Description automatically generated

1. # Sorting Numbers
2. listx=[4,5,1,3,2]
3. listx.sort()
4. **print** ("Sorted String is ")
5. **print** (listx)

Use Case 10

Question Unclear

Use Case 11

A screenshot of a social media post

Description automatically generated

1. # Finding Unique values in the list
2. listx=[1,2,2,33,4,4,11,22,3,3,2]
3. listy=set(listx)
4. **print** ("Unique values in listx is ")
5. **print** (listy)

Use Case 12

A screenshot of a social media post

Description automatically generated

1. # Find all numbers divisible by 7 and not multiples of 5 between 2000 and 3200
2. listx=[]
3. **for** nbr **in** range(2000, 3200):
4. **if** (nbr%7==0) **and** (nbr%5!=0):
5. listx.append(str(nbr))
6. **print** (';'.join(listx))

Use Case 13

A screenshot of a cell phone

Description automatically generated

1. # Print Number pattern
3. # Function definition for printing the row
4. **def** print\_myrow(a, b):
5. **if** (a == 0):
6. **return**;
7. **print**(b , end=" ");
9. # Calling Recursive print\_myrow()
10. print\_myrow(a - 1, b);
12. # Function definition for printing the pattern
13. **def** print\_mypattern(x, nbr):
14. **if** (x == 0):
15. **return**;
16. print\_myrow(nbr - x + 1, nbr - x + 1);
17. **print**("");
19. # Calling Recursive print\_mypattern()
20. print\_mypattern(x - 1, nbr);
22. # Main
23. val = 5;
24. print\_mypattern(val, val);

Use Case 14

Working on

Use Case 15

A screenshot of a social media post

Description automatically generated

1. # Display Even length words in a Sentence
3. # Get String from User
4. str = input("Please write a Sentence: ")
6. # Move the sentence into a List
7. listx = list(str.split(' '))
9. **print** ("Your sentence is: ", str);
11. # Converted list of words
12. **print** ("List string is : ", listx);
14. # Check word by word get its length and print only when the word is EVEN
15. **print** ("EVEN Length Words are:");
16. **for** word **in** listx:
17. **if**(len(word)%2==0):
18. **print** (word);

Use Case 16

Use Case 17

Use Case 18

Use Case 19

Use Case 20

Use Case 21

Use Case 22

Use Case 23

Use Case 24

Use Case 25

Use Case 26

Use Case 27

Use Case 28

Use Case 29

Use Case 30

Day 3 Homework Usecases

Case 1: Linear Regression to load data from CSV

A screenshot of a social media post

Description automatically generated

Case 2: Binary classification of wear coat or not based on location and temperature.

A screenshot of a social media post

Description automatically generated