

Python Assignment - Big Data Analytics

Github Link : <https://github.com/saiteja007-mv/Big-Data-Analytics.git>

✓ Question 5 A

```
python_list = []
input_string = input("Enter the string 'Python': ")

for char in input_string:
    python_list.append(char)

del python_list[4]
del python_list[4]

reversed_list = python_list[::-1]

reversed_string = "".join(reversed_list)
reversed_string
```

Enter the string 'Python': Python
'htyP'

✓ Question 5 B

```
[19] num1 = float(input("Enter the first number: "))
num2 = float(input("Enter the second number: "))

# Addition
sum_result = num1 + num2
print(f"{num1} + {num2} = {sum_result}")

# Subtraction
difference_result = num1 - num2
print(f"{num1} - {num2} = {difference_result}")

# Multiplication
product_result = num1 * num2
print(f"{num1} * {num2} = {product_result}")

# Division
if num2 != 0:
    division_result = num1 / num2
    print(f"{num1} / {num2} = {division_result}")
else:
    print("Cannot divide by zero.")
```

Enter the first number: 4
Enter the second number: 6
4.0 + 6.0 = 10.0
4.0 - 6.0 = -2.0
4.0 * 6.0 = 24.0
4.0 / 6.0 = 0.6666666666666666

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✓ Question 6

✓
12s

```
▶ sentence = input("Enter a sentence: ")  
modified_sentence = sentence.replace('python', 'pythons')  
modified_sentence
```

↔ Enter a sentence: I love playing with python
'I love playing with pythons'

✓ Question 7

✓
2s

```
[21] score = int(input("Enter the class score: "))
```

```
    if score >= 90:  
        print("A")  
    elif score >= 80:  
        print("B")  
    elif score >= 70:  
        print("C")  
    elif score >= 60:  
        print("D")  
    else:  
        print("F")
```

↔ Enter the class score: 99
A

✓ Question 8

✓
3s

```
[22] x = [23, 'Python', 23.98]  
print(x)  
types = []  
for item in x:  
    types.append(type(item))  
types
```

↔ [23, 'Python', 23.98]
[int, str, float]

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Question 9

[+ Code](#)[+ Text](#)

```
✓ [23] IT_companies = {'Facebook', 'Google', 'Microsoft', 'Apple', 'IBM', 'Oracle', 'Amazon'}  
0s A = {19, 22, 24, 20, 25, 26}  
B = {19, 22, 20, 25, 26, 24, 28, 27}  
age = [22, 19, 24, 25, 26, 24, 25, 24]  
  
# Find the length of the set IT_companies  
print(len(IT_companies))  
  
# Add 'Twitter' to IT_companies  
IT_companies.add('Twitter')  
print(IT_companies)  
  
# Insert multiple IT companies at once to the set IT_companies  
new_companies = {'Netflix', 'LinkedIn'}  
IT_companies.update(new_companies)  
print(IT_companies)  
  
# Remove one of the companies from the set IT_companies  
IT_companies.remove('Oracle')  
print(IT_companies)  
  
# What is the difference between remove and discard  
# remove will raise a KeyError if the item is not found, discard will not.  
IT_companies.discard('IBM')  
print(IT_companies)  
# Example of discard (assuming 'Yahoo' is not in the set):  
IT_companies.discard('Yahoo')  
print(IT_companies)  
# Example of remove (will raise KeyError if 'Yahoo' is not in the set):  
# IT_companies.remove('Yahoo') # Uncomment to see the error  
  
# Join A and B  
print(A.union(B))  
  
# Find A intersection B  
print(A.intersection(B))
```

Python Assignment - Big Data Analytics

✓
0s



```
# Is A subset of B
print(A.issubset(B))

# Are A and B disjoint sets
print(A.isdisjoint(B))

# Join A with B and B with A
print(A.union(B))
print(B.union(A))

# What is the symmetric difference between A and B
print(A.symmetric_difference(B))

# Delete the sets completely
del IT_companies
del A
del B

# Convert the ages to a set and compare the length of the list and the set.
age_set = set(age)
print("Length of age list:", len(age))
print("Length of age set:", len(age_set))
print("Ages list:", age)
print("Ages set:", age_set)
```



```
7
{'IBM', 'Microsoft', 'Oracle', 'Google', 'Apple', 'Facebook', 'Twitter', 'Amazon'}
{'IBM', 'LinkedIn', 'Microsoft', 'Google', 'Apple', 'Twitter', 'Amazon', 'Netflix', 'Oracle'}
{'IBM', 'LinkedIn', 'Microsoft', 'Google', 'Apple', 'Twitter', 'Amazon', 'Netflix', 'Facebook'}
{'LinkedIn', 'Microsoft', 'Google', 'Apple', 'Twitter', 'Amazon', 'Netflix', 'Facebook'}
{'LinkedIn', 'Microsoft', 'Google', 'Apple', 'Twitter', 'Amazon', 'Netflix', 'Facebook'}
{19, 20, 22, 24, 25, 26, 27, 28}
{19, 20, 22, 24, 25, 26}
True
False
{19, 20, 22, 24, 25, 26, 27, 28}
{19, 20, 22, 24, 25, 26, 27, 28}
{27, 28}
Length of age list: 8
Length of age set: 5
Ages list: [22, 19, 24, 25, 26, 24, 25, 24]
Ages set: {19, 22, 24, 25, 26}
```