

Activity 05.py - C:/Users/Pranoti/OneDrive/Documents/25BAS10016 - ADD - Task 1/Activity 05.py (3.13.2)

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#1 - Create a set my_set which contains the elements 1 to 5.
my_set = {1,2,3,4,5}
my_set = set([1,2,3,4,5])
print(my_set)
print(my_set)

#2 - Create a set my_set1 which contains the elements 1,2.5,Python.
my_set1 = {1,2.5,'Python'}
my_set1 = set([1,2.5,'Python'])
print(my_set1)
print(my_set1)

#3 - add 6 to set 1
my_set1.add(6)
print(my_set1)

#4 - Using update() remove duplicate elements.
my_set1.update({2.5,7})
print(my_set1)

#5 - Removes 6 from set 1 using remove()
my_set1.remove(6)
print(my_set1)

#6 -
Long_Jump = {"Ajay","John","Nikel","Marlin","Ravi","Sanjay","Rithvik"}
Javelin = {"Ravi", "Olivia", "Nithin", "James", "Edwin", "John", "Akshay"}
#a - Participants enrolled for one event
one_event = (Long_Jump - Javelin).union(Javelin - Long_Jump)
print("Participants in one event only :", one_event)
#b - Unique Participants in both events
unique_participants = len(Long_Jump.union(Javelin))
print("Unique participants across both the events :", unique_participants)
#c - Determine if all participants of long jump also enrolled for Javeline
longjump_in_javelin = Long_Jump.issubset(Javelin)
print("Long Jump participants in Javelin :", longjump_in_javelin)
#d - Participants enrolled for both events
both_events = Long_Jump.intersection(Javelin)
print("Participants in both events :", both_events)
```

IDLE Shell 3.13.2

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Python 3.13.2 (tags/v3.13.2:4f8bb39, Feb 4 2025, 15:23:48) [MSC v.1942 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.

>>>
= RESTART: C:/Users/Pranoti/OneDrive/Documents/25BAS10016 - ADD - Task 1/Activit
y 05.py
{1, 2, 3, 4, 5}
{1, 2, 3, 4, 5}
{1, 2.5, 'Python'}
{1, 2.5, 'Python'}
{1, 2.5, 'Python', 6}
{1, 2.5, 'Python', 6, 7}
{1, 2.5, 'Python', 7}
Participants in one event only : {'Rithvik', 'Nithin', 'Olivia', 'Nikel', 'Edwin',
, 'Akshay', 'Ajay', 'James', 'Marlin', 'Sanjay'}
Unique participants across both the events : 12
Long Jump participants in Javelin : False
Participants in both events : {'John', 'Ravi'}
```