

**DATA ANALYTICS WITH PYTHON****TASK-1**

**Description:** This task involves understanding the basic data types in Python such as lists, dictionaries, and sets.

**Responsibility:** Write a Python program to create a list, a dictionary, and a set. Perform basic operations like adding, removing, and modifying elements.

```
#basic task like adding removing and modifying list
```

```
# Create a list
```

```
my_list = [1, 2, 3, 4, 5]
```

```
# Add an element to the end of the list
```

```
my_list.append(6)
```

```
# Remove the last element from the list
```

```
my_list.pop()
```

```
# Modify the first element of the list
```

```
my_list[0] = 0
```

```
# Print the modified list
```

```
print(my_list)
```

```
↩ [0, 2, 3, 4, 5]
```

```
# basic task like adding removing and modifying dictionary
```

```
# Create a dictionary
```

```
my_dict = {"name": "John", "age": 30, "city": "New York"}
```

```
# Add a new key-value pair to the dictionary
```

```
my_dict["profession"] = "Software Engineer"
```

```
# Remove a key-value pair from the dictionary
```

```
del my_dict["age"]
```

```
# Modify the value of an existing key
```

```
my_dict["city"] = "London"
```

```
# Print the modified dictionary
```

```
print(my_dict)
```

```
↩ {'name': 'John', 'city': 'London', 'profession': 'Software Engineer'}
```

```
# basic task like adding removing and modifying set
```

```
# basic task like adding removing and modifying set
```

```
# Create a set
```

```
my_set = {1, 2, 3, 4, 5}
```

```
# Add an element to the set
```

```
my_set.add(6)
```

```
# Remove an element from the set
```

```
my_set.remove(3)
```

```
# Modify an element in the set (not possible directly)
```


```
# To modify an element, we need to remove it and add a new one
```

```
my_set.remove(1)
```

```
my_set.add(0)
```

```
# Print the modified set
```

```
print(my_set)
```

 {0, 2, 4, 5, 6}