

Riphah International University

Artificial Intelligence (AI)

Lab 2



Submitted by: Muhammad Qasim

Sap ID: 37137

Section: BSCS-6A

Submitted To: Mahjabeen

**Riphah School of Computing & Innovation Faculty
of Computing Riphah International University,
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Lab

```
fruit=["apple","banana","mango","cherry","pineapple"]
print(fruit[1:5])

['banana', 'mango', 'cherry', 'pineapple']

fruit=("apple","banana","mango","cherry","pineapple")
print(fruit[1:5])

('banana', 'mango', 'cherry', 'pineapple')

fruit={"apple","banana","mango","cherry","pineapple"}
print(fruit)

{'banana', 'mango', 'cherry', 'apple', 'pineapple'}
```

```
Qasim = {
    "Uni": "Riphah",
    "Name": "Qasim",
    "sap": "37137"
}
print(Qasim["sap"])
for key, value in Qasim.items():
    print(f"{key}: {value}")
print(Qasim.keys())

37137
Uni: Riphah
Name: Qasim
sap: 37137
dict_keys(['Uni', 'Name', 'sap'])
```

```
check=None
name=input("Enter Name")

if name == "Qasim":
    check = True
    print(check)
else:
    check = False
    print(check)

Enter NameQasim
True
```

```
color=["green","red","yellow","pink","cyan"]
name=input("Enter Name")
if name=="Qasim":
    print(color[0])
elif name=="Imran":
    print(color[3])

0.0s
```

```
Python
n=1
while n<=10:
    print(str(n),"\n")
    n+=1

[1]
...
1
2
3
4
5
6
7
8
9
10
```

```
Python
color=["green","red","yellow","pink","cyan"]
name=input("Enter Name")
if name=="Qasim":
    print(color[0])
elif name=="Imran":
    print(color[3])

[2] ✓ 0.0s
```

```
Python
#1
numbers=[1,2,3,4,5,6,7,8,9,10]
for x in numbers:
    if x%2==0: #we will not use numbers[x]%2 because x directly points to the value and not the index
        print(x)

[ ]
...
2
4
6
8
10

#2
numbers=[1,2,3,4,5,6,7,8,9,10]
for x in numbers:
    if x > 1:
        for i in range(2, x):
            if (x % i) == 0:
                break
        else:
            print(x)

[ ]
...
2
3
5
7
```

```
▷ ▾
#3
numbers=[1,2,3,4,5,6,7,8,9,10]
check=False
inp=input("Enter Number to Search: ")
inp=int(inp)
for x in numbers:
    if x==inp:
        print(str(x) + " Found in numbers list")
        check=True
    else:
        if check==False:
            print("Not Found")

[] Python
... Enter Number to Search: 8
8 Found in numbers list

#4
numbers=[1,2,3,4,5,6,7,8,9,10]
sum(numbers)

[] Python
... 55

#5
numbers=[1,2,3,4,5,6,7,8,9,10]
print(max(numbers))
print(min(numbers))

[] Python
... 10

▷ ▾
#6
fruits_and_vegs=[["apple", "banana", "orange"],["eggplant","onion"]]
check=False
inp=input("Enter Fruit or Vegetable: ")
for x in fruits_and_vegs:
    if inp in x:
        print(inp + " Found")
        check=True
    else:
        if check==False:
            print(inp+" Not Found")

[] Python
... Enter Fruit or Vegetable: tomato
tomato Not Found
```