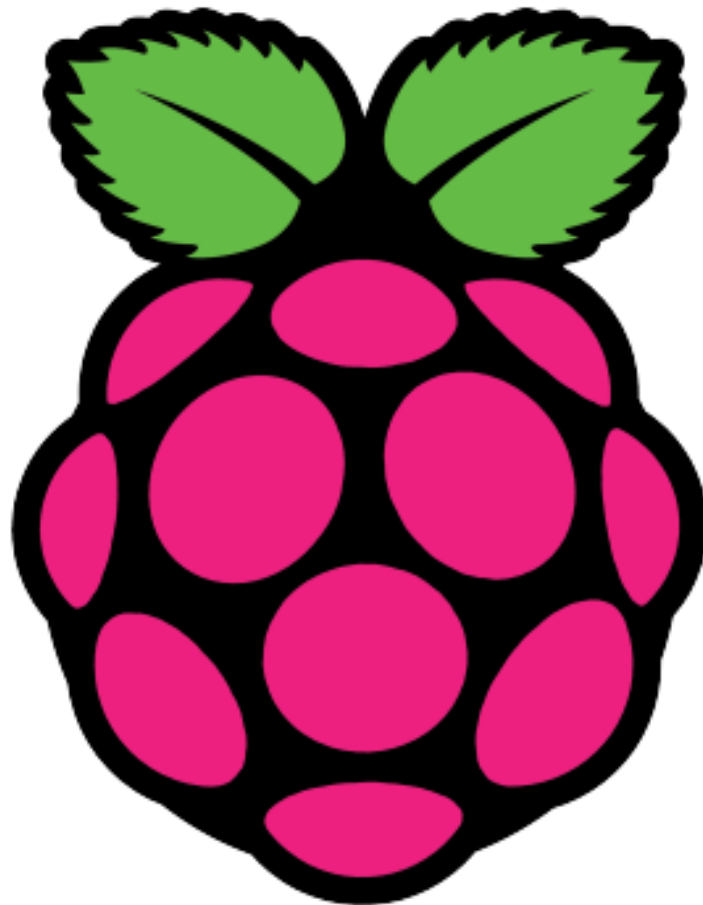


“Raspberry pi course”

ENG: AHMED MUBARAK

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SESSION NO.“3”

- PYTHON PROGRAMMING

ENG.AHMED MUBARAK

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8. Python Course – List

```
list1 = [1,2,2,3,4,5,6,7,8,9]
print(list1)
print("-----")
print(list1[0])
print("-----")
print(list1[0:4])
print("-----")
print(list1[:5])
print("-----")
list1[4]=22
print(list1)
print("-----")
del list1[0]
print(list1)
print("-----")
del list1
# print(list1) # error because we delete it
print("-----")
name = ["ahmed","mohamed","ibrahim","ali"]
age = [18,25,33,66]
print(name+age)
print(name*3)
print(len(name))
print(3 in name)
print("ahmed" in name)
print("-----")
num = [11,12,13,14,15,16,17,18,19]
print(min(num))
print((max(num)))
num.append(20)
```

```

print(num)
num.append(11)
print(num.count(11))
x = [5,7,8,9]
num.extend(x)
print(num)
print(num.index(5))
num.insert(2,"ahmed")
print(num)
num.remove("ahmed")
print(num)
num.reverse()
print(num)
num.sort()
print(num)

```

9.Python Course – Tuple

```

names=["ahmed","mohamed","ali"]
print(type(names))
print("-----")
names = ("ahmed","mohamed","ali")
print(type(names))
# names[0]="ibrahim" #error because it's not support
num = (1,2,3)
print(names+num)
print(names*2)
print(min(num))
print(max(num))
# del num[0] #error because it's not support
del num
# print(num) #error because we delete it
num = (3,6,7,9,1,3,4)

```

```
num = list(num)
print(type(num))
```

10. Python Course – Dictionary

```
search = {"name": "ahmed", "age": 23}

print(search)

print(search["name"])

search["name"] = "mohamed"

print(search)

del search["age"]

print(search)

search.clear()

print(search)

del search

# print (search) #error because we deleted it

search = {"name": "ahmed", "age": 23}

print(len(search))

search = str(search)

print(type(search))

print("-----")

dict1 = {1, 2, 3, 4, 5, 6, 7, 8, 9}

dict2 = dict1.copy()

print(dict2)
```

11. Python Course - For Loops

```
num = range(10)

num = list(num)

print(num)

print('-----')

num = range(2, 10)

num = list(num)
```

```

        print(num)

    print('-----')

    num = range(2,10,2)

    num = list(num)

    print(num)

    print('-----')

    nu = range (10)

    nu = list(nu)

    for i in nu :

        print (i)

```

12. Python Course - While Loop

```

num = int(input("PLZ ENTER NUMBER : "))

while num != 0 :

    print("continue")

num = int(input("PLZ ENTER NUMBER : "))

print("bye bye")

```

13. Loop Control with Break, Pass, and Continue

```

word = "python"

for n in word :

    if n == 'h' :

        break

    else :

        print(n)

print("-----")

word = "python"

for n in word :

    if n == 'h' :

        pass

    else :

```

```
print(n)
print("-----")
word = "python"
for n in word :
    if n == 'h' :
        continue
    else :
        print(n)
```

With my best wishes:

ENG : AHMED MUBARAK
