“Raspberry pi course”

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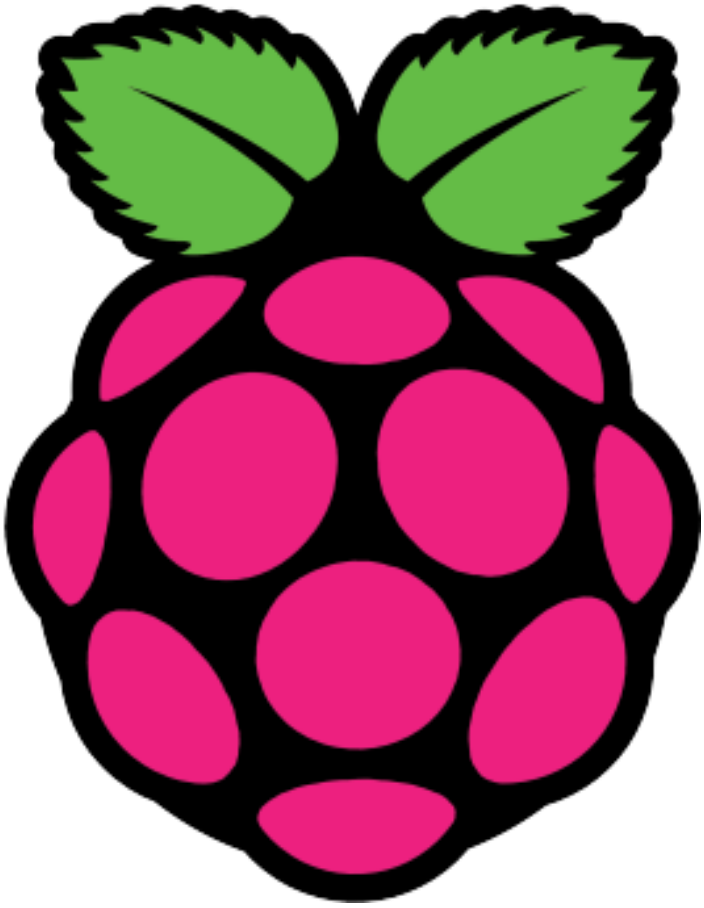

SESSION NO.“2”

- PYTHON PROGRAMMING

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1.Python Course - Print Data

```
print("ahmed")

print(1)

print(1+2)

print("1+2")

print("Ahmed' course")

print('Ahmed say "hello"')

print('''ahmed's course is "the best"''')

print("ahmed\nmohamed")
```

2.Python Course - Datatype and Variables

```
print(type(10))

print("----------------------")

print(type(10.5))

print("----------------------")

print(type(4+7j))

print("----------------------")

a=10

print(type(a))

print("----------------------")

b = 5+6j

print(type(b))

print("----------------------")

a,b,c = 1,2.3,4+7j

print(type(a),type(b),type(c))

print("----------------------")

a= "ya rab"

print(type(a),a)
```

3.Python Course- Math Operations

```
print(2+3)
print("-------------------------")
print(5-2)
print("-------------------------")
print(5*3)
print("-------------------------")
print(9/3)
print("-------------------------")
print(2**3)
print("-------------------------")
print(8%6)
print("-------------------------")
print(9//3)
print("-------------------------")
a=2
b=4.6
c=5+6j
print(a+b+c)
print("-------------------------")
x=2
y=8
z=5
o=9
r=(y*z)/x+o
print(r)
```

4.Python Course - Read input and Type Casting

```
e=input("ENTER THE FIRST NUMBER : ")
s=input("ENTER THE SECOND NUMBER : ")
z = e + s
print(z)
print("-------------------------------")
e=int(input("ENTER THE FIRST NUMBER : "))
s=int(input("ENTER THE SECOND NUMBER : "))
z = e + s
print(z)
```

5.Python Course - Conditional and Logical Operators

```
print(5<4)
print("-------------------------")
print(5>4)
print("-------------------------")
print(5==4)
print("-------------------------")
print(5>=4)
print("-------------------------")
print(5<=4)
print("-------------------------")
print(5!=4)
print("-------------------------")
print(5>4 and 6<4)
print("-------------------------")
print(5>4 or 6<4)
print("-------------------------")
```

6.Python Course - If Condition

```
age = int(input("ENTER YOUR AGE : "))
if age > 18 :
print("good")
elif age == 18 :
print ("acceptable")
else :
print("bad")
print ("----------------------------------------")
age = int(input("ENTER YOUR AGE : "))
gender = str(input("ENTER YOUR GENDER : "))
if age > 18 and gender == "m" :
print("go")
else :
print("back")
```

7.Python Course - LAB1

```
num1 = float(input("ENTER YOUR FIRST NUMBER : "))
num2 = float(input("ENTER YOUR SECOND NUMBER : "))
op = input("ENTER THE OPERATION THAT YOU WANT : ")
if op == '+' :
res = num1+num2
print("sum : ",res)
elif op == '-' :
res = num1-num2
print("sum : ",res)
elif op == '*' :
res = num1*num2
print("sum : ",res)
elif op == '/' :
res = num1/num2
print("sum : ",res)
```