CSM 3113 – IOT COMPUTING

BACHELOR OF COMPUTER SCIENCE (SOFTWARE ENGINEERING) WITH HONOURS

LAB 2

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Python Control Structure

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[2]:
```
value = int(input('enter a number :'))

if value > 0:
    print('positive number')
elif value == 0:
    print('Zero')
else:
    print('Negative Number')
```

```
enter a number : 12

positive number
```

[3]:
```
car = ['BMW','Merc','Proton']

for x in car:
    print(x)
```

```
BMW
Merc
Proton
```

[4]:
```
for x in 'Mercedes':
    print(x)
```

```
M
e
r
c
e
d
e
s
```

[6]:
```
a= 1
b= 10

while a<b:
    print('a lower than b')
    a = a+1
```

```
a lower than b
a lower than b
a lower than b
a lower than b
a lower than b
a lower than b
a lower than b
a lower than b
a lower than b
```

[7]:
```
def my_function():
    """This Function to print hello"""
    print ('Hello')

my_function()
```

```
Hello
```

[12]:
```
def my_function():
    """This function to make addition between a and b"""
    a = int(input('a: '))
    b = int(input('b: '))
    print(a+b)

my_function()
```

```
a:  20
b:  30
```

```
50
```

[15]:
```
# Python Exercise

def isFever():
    temp = int(input('enter your body temp'))
    if(temp < 38):
        print('your are healthy')
    elif(temp < 100):
        print('You have a fever')
    else:
        print('are you even human??')

isFever()
```

```
enter your body temp 180
```

```
are you even human??
```

[ ]:
```

```

Predict Weather

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[12]:
```
#PREDICTING WEATHER WITH THE BAROMETER


District_pressure = [
[101212,101322,101421,101650,101760,101760,101760,101341,109812,156013,107613,101213,109812,10
 ↪#Kuala Nerus
[101212,101322,101421,101650,101760,101760,101760,101341,109812,156013,107613,101213,109812,10
 ↪#Kuala Terengganu
[101212,101322,101421,101650,101760,101760,107281,101341,109812,156013,107613,101213,109812,10
 ↪#Marang
]
district = (input('Insert District: '))
hourIndex = int(input('Insert Hour: '))

indexDistrict = 0

if(district == 'Kuala Nerus'):
    indexDistrict = 0
elif(district == 'Kuala Terengganu'):
    indexDistrict = 1
elif(district == 'Marang'):
    indexDistrict =2


if(District_pressure[indexDistrict][hourIndex] > 102268):
    print('Calm Weather')
elif(District_pressure[indexDistrict][hourIndex] < 102268):
    print('Steady Weather')
else:
    print('Rain is Likely')
```

```
Insert District:  Marang
Insert Hour:  21
```

```
Calm Weather
```

[40]:
```
Funnel = 0
Stern = 0
```

```
Propeller = 0
Hull = 0
Anchor = 0
Bow = 0
Forward = 0
Deck = 0
Accommodation_Bridge = 0

component_part =␣
 ↪[Funnel,Stern,Propeller,Hull,Anchor,Bow,Forward,Deck,Accommodation_Bridge]

componentIndex = int(input(
    'Sila masukkan komponen kapal untuk pemeriksaan:\n'
    '0 - Funnel\n'
    '1 - Stern\n'
    '2 - Propeller\n'
    '3 - Hull\n'
    '4 - Anchor\n'
    '5 - Bow\n'
    '6 - Forward\n'
    '7 - Deck\n'
    '8 - Accommodation-Bridge\n'
))

component_part[componentIndex] = int(input('Sila masukkan Status Komponen:'))

check_part_index = int(input('Sila Masukkan Komponen Kapal Untuk Pemeriksaan:'))


print(trans_status(component_part[check_part_index]))

def trans_status(status_num):
    if (status_num == 1):
        return 'Baik'
    elif(status_num == 2):
        return 'Kurang Baik'
    elif(status_num == 3):
        return 'perlu selenggara'
    elif(status_num == 4):
        return 'rosak'
    else:
        return exit.system
```

```
Sila masukkan komponen kapal untuk pemeriksaan:
0 - Funnel
1 - Stern
2 - Propeller
3 - Hull
```

```
4 - Anchor
5 - Bow
6 - Forward
7 - Deck
8 - Accommodation-Bridge
 5
Sila masukkan Status Komponen: 1
Sila Masukkan Komponen Kapal Untuk Pemeriksaan: 5

Baik
```

[ ]: