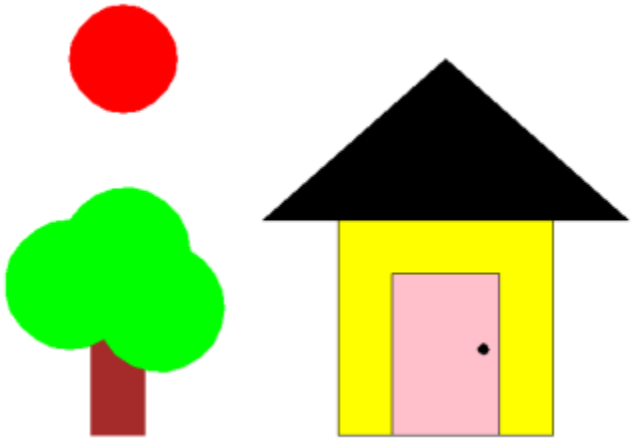
FEU INSTITUTE OF TECHNOLOGY

INTEGRATIVE PROGRAMMING AND TECHNOLOGIES
M7 SUMMATIVE TECHNICAL EXAM

EXERCISE:

1. Write a program with Turtle to display this shape (House).



INSTRUCTIONS:
Copy your source codes to be pasted in this document as well as a screen shot of your running output.

Snip and paste your source codes here. Snip it directly from the IDE so that colors of the codes are preserved for readability. Include additional pages if necessary.

main.py

```
1  import turtle
2
3  t = turtle.Turtle()
4  #color and speed
5  # of turtle
6  # creating the house
7  t.color("black")
8  t.shape("turtle")
9  t.speed(5)
10
11 # for creating base of
12 # the house
13 t.fillcolor('yellow')
14 t.begin_fill()
15 t.right(90)
16 t.forward(250)
17 t.left(90)
18 t.forward(250)
19 t.left(90)
20 t.forward(250)
21 t.left(90)
22 t.forward(270)
23 t.right(90)
24 t.end_fill()
25
26 # for top of
27 # the house
28 t.penup()
29 t.goto(-5,0)
30 t.pendown()
31 t.fillcolor('black')
32 t.begin_fill()
33 t.right(90)
34 t.forward(270)
35 t.left(130)
36 t.forward(220)
37 t.left(100)
38 t.forward(220)
```

main.py

```
39  t.end_fill()
40
41  # for door
42
43  t.left(-140)
44  t.penup()
45  t.goto(165,-250)
46  t.pendown()
47  t.fillcolor("pink")
48  t.begin_fill()
49  t.forward(150)
50  t.left(90)
51  t.forward(80)
52  t.left(90)
53  t.forward(150)
54  t.end_fill()
55  t.penup()
56  t.goto(158,-175)
57  t.fillcolor("black")
58  t.pendown()
59  t.begin_fill()
60  t.circle(2)
61  t.end_fill()
62
63  # Sun
64  t.penup()
65  t.goto(-150,130)
66  t.pencolor('red')
67  t.fillcolor("red")
68  t.pendown()
69  t.begin_fill()
70  t.circle(25)
71  t.end_fill()
72
73
```

main.py

```
73
74  #Tree base
75  t.penup()
76  t.goto(-150,-200)
77  t.pendown()
78  t.left(90)
79  t.pencolor('brown')
80  t.fillcolor('brown')
81  t.begin_fill()
82  t.forward(15)
83  t.left(90)
84  t.forward(100)
85  t.left(90)
86  t.forward(30)
87  t.left(90)
88  t.forward(100)
89  t.right(90)
90  t.end_fill()
91
92  # Tree
93  t.penup()
94  t.goto(-170,-40)
95  t.pencolor('lightgreen')
96  t.fillcolor("lightgreen")
97  t.pendown()
98  t.begin_fill()
99  t.circle(35)
100 t.left(90)
101 t.penup()
102 t.goto(-160,-80)
103 t.pendown()
104 t.circle(35)
105 t.penup()
106 t.goto(-140,-70)
107 t.pendown()
108 t.left(90);
109 t.circle(35)
110 t.end_fill()
```

OUTPUT:

main.py

```
import turtle

t = turtle.Turtle()
#color and speed
# of turtle
# creating the house
t.color("black")
t.shape("turtle")
t.speed(5)

# for creating base of
# the house
t.fillcolor('yellow')
t.begin_fill()
t.right(90)
t.forward(250)
t.left(90)
t.forward(250)
t.left(90)
t.forward(250)
t.left(90)
t.forward(270)
t.right(90)
t.end_fill()

# for top of
# the house
t.penup()
t.goto(-5,0)
t.pendown()
t.fillcolor('black')
t.begin_fill()
t.right(90)
```