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Introduction to Computers and Programming, SE Programme

Homework #2

16th August 2021

1. Write a Python program to read 5 numbers from the user and print out the summation and the average of the 5 numbers.

```
int_a = int(input("Enter a num_a: "))
int_b = int(input("Enter a num_b: "))
int_c = int(input("Enter a num_c: "))
int_d = int(input("Enter a num_d: "))
int_e = int(input("Enter a num_e: "))

sum = int_a + int_b + int_c + int_d + int_e
average = sum / 5

print(f"The sum is {sum} ")
print(f"Average is {average} ")
```

```
Enter a num_a: 5
Enter a num_b: 5
Enter a num_c: 5
Enter a num_d: 5
Enter a num_e: 5
The sum is 25
Average is 5.0

Process finished with exit code 0
```

2. Write a Python program to draw a house in your imagination. Draw the picture and the codes in the area below. If you need more space, use the opposite side of this paper. Submit this paper next week before the Python class.

```
import turtle
t=turtle.Turtle()
t.penup()
t.goto(-500,-150)
t.pendown()

t.color("green")
t.begin_fill()
t.fd(1000)
t.right(90)
t.fd(300)
t.right(90)
t.fd(1000)
t.right(90)
t.fd(300)
t.end_fill()

t.color("light blue")
t.begin_fill()
t.fd(600)
t.right(90)
t.fd(1000)
t.right(90)
t.fd(600)
t.right(90)
t.fd(1000)
t.end_fill()

t.penup()
t.goto(-25,-150)
t.pendown()
t.color("black")
t.fillcolor("cornsilk1")
t.begin_fill()
t.fd(200)
t.right(90)
t.fd(220)
t.right(45)
t.fd(190)
t.right(90)
```

```
t.fd(190)
t.right(45)
t.fd(220)
t.right(90)
t.fd(100)
t.end_fill()

t.penup()
t.goto(-175,15)
t.pendown()
t.color("black")
t.fillcolor("deep sky blue")
t.begin_fill()
t.fd(15)
t.right(90)
t.fd(45)
t.right(90)
t.fd(15)
t.right(90)
t.fd(45)
t.right(90)
t.end_fill()

t.penup()
t.goto(-15,15)
t.pendown()
t.color("black")
t.fillcolor("deep sky blue")
t.begin_fill()
t.right(90)
t.fd(45)
t.right(90)
t.fd(15)
t.right(90)
t.fd(45)
t.right(90)
t.fd(15)
t.end_fill()

t.penup()
t.goto(-115,-150)
t.pendown()
t.color("black")
t.fillcolor("burlywood")
t.begin_fill()
```

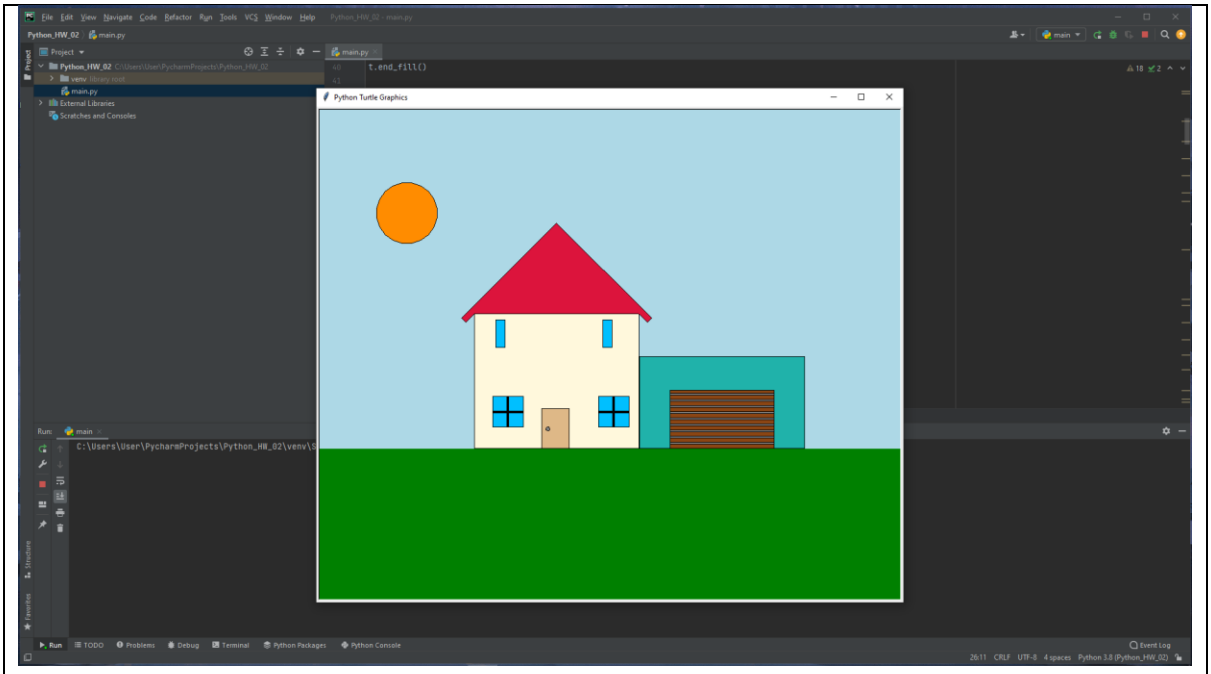
```
t.right(90)
t.fd(65)
t.right(90)
t.fd(45)
t.right(90)
t.fd(65)
t.right(90)
t.fd(45)
t.end_fill()

t.penup()
t.goto(-105,-115)
t.pendown()
t.fillcolor("grey")
t.begin_fill()
t.circle(3)
t.end_fill()

t.penup()
t.goto(-22,-115)
t.pendown()
t.color("black", "deep sky blue")
t.begin_fill()
t.right(90)
t.fd(50)
t.right(90)
t.fd(50)
t.right(90)
t.fd(50)
t.right(90)
t.fd(50)
t.end_fill()

t.begin_fill()
t.fillcolor("black")
t.right(90)
t.fd(23)
t.right(90)
t.fd(50)
t.left(90)
t.fd(3)
t.left(90)
t.fd(50)
t.left(90)
t.fd(3)
```

```
t.end_fill()


t.fillcolor("black")
t.fd(23)
t.left(90)
t.begin_fill()
t.fd(23)
t.left(90)
t.fd(50)
t.right(90)
t.fd(3)
t.right(90)
t.fd(50)
t.right(90)
t.fd(3)
t.end_fill()

t.penup()
t.goto(-195,-115)
t.pendown()

t.color("black", "deep sky blue")
t.begin_fill()
t.right(90)
t.fd(50)
t.right(90)
t.fd(50)
t.right(90)
t.fd(50)
t.right(90)
t.fd(50)
t.end_fill()

t.begin_fill()
t.fillcolor("black")
t.right(90)
t.fd(23)
t.right(90)
t.fd(50)
t.left(90)
t.fd(3)
t.left(90)
t.fd(50)
t.left(90)
```

```
t.fd(3)
t.end_fill()


t.fillcolor("black")
t.fd(23)
t.left(90)
t.begin_fill()
t.fd(23)
t.left(90)
t.fd(50)
t.right(90)
t.fd(3)
t.right(90)
t.fd(50)
t.right(90)
t.fd(3)
t.end_fill()

t.penup()
t.goto(-225,70)
t.pendown()
t.right(180)
t.fd(270)

t.penup()
t.goto(45,-150)
t.pendown()

t.fillcolor("light sea green")
t.begin_fill()
t.left(90)
t.fd(150)
t.right(90)
t.fd(270)
t.right(90)
t.fd(150)
t.right(90)
t.fd(270)
t.end_fill()

t.penup()
t.goto(45,-150)
t.right(180)
t.fd(50)
```

```
t.pendown()
t.fillcolor("saddle brown")
t.begin_fill()
t.left(90)
t.fd(95)
t.right(90)
t.fd(170)
t.right(90)
t.fd(95)
t.right(90)
t.fd(170)
t.end_fill()

for i in range (9):
    t.fillcolor("grey")
    t.begin_fill()
    t.right(90)
    t.fd(7)
    t.right(90)
    t.fd(170)
    t.left(90)
    t.fd(3)
    t.left(90)
    t.fd(170)
    t.end_fill()

t.penup()
t.goto(45,-150)
t.right(180)
t.fd(50)
t.pendown()
t.left(90)
t.fd(95)
t.right(90)
t.fd(170)
t.right(90)
t.fd(95)
t.right(90)
t.fd(170)

t.penup()
t.goto(-225,70)
t.left(45)
t.pendown()
t.fillcolor("crimson")
```

```
t.begin_fill()
t.fd(20)
t.right(90)
t.fd(10)
t.right(90)
t.fd(220)
t.right(90)
t.fd(220)
t.right(90)
t.fd(10)
t.right(90)
t.fd(20)
t.end_fill()

t.penup()
t.goto(-300,270)
t.pendown()
t.fillcolor("dark orange")
t.begin_fill()
t.circle(50)
t.end_fill()

t.penup()
t.goto(0,0)
t.left(45)
t.hideturtle()
turtle.done()
```


Python Turtle Graphics
t.end_fill()