Paper Coding Worksheet

Chapter:	1
Unit:	1
Student Name:	Aman Dhaubanjar

1.

output:

Sequence of Commands:

Move Right

Fill-In Square

Move Right

Move Down

Fill-In Square

Move Left

Move Left

Fill-In Square

```
Move Down
Move Right
Fill-In Square
Move Right
2.
c = ["Move Right", "Move Left",
         "Move Up", "Move Down",
         "Fill-In Square"]
def fill_box(filled_box_index):
   for i in range(16):
      if i in filled_box_index:
         print(c[4])
      if (i!=15):
         if ((i+1)\%4 ==0):
            print(c[3])
         elif (i<3 or (i>7 and i<11)):
            print(c[0])
         else:
            print(c[1])
#1
print("Image 1")
fill_box([1,2, 4, 7])
#2
print("Image 2")
fill_box([0, 5, 10, 15])
```

```
print("Image 3")

fill_box([0, 4, 8, 9, 13])

#4

print("Image 4")

fill_box([1, 5, 6, 7, 11, 15])
```

print("Image 5")

fill_box([3, 6, 9, 12])

#6

#5

#3

print("Image 6")

fill_box([1, 2, 5, 6, 9, 10, 13, 14])

Chapter:	1
Unit:	3
Student Name:	Aman Dhaubanjar

1.

```
result1 = int("50") + 50

result2 = str(50) + "50"

print("Result 1:", result1)

print("Result 2:", result2)
```

output:

Result 1: 100

2.

```
number = int("1" + "0" + "0" + "0")
print("Generated number:", number)
```

output:

Generated number: 1000

Chapter:	1
Unit:	4
Student Name:	Aman Dhaubanjar

1.

```
width, height = 30, 60
area = width * height
print("Area of Rectangle:", area)
```

output:

Area of Rectangle: 1800

2.

```
import math
base = int(input("Enter base: "))
height = int(input("Enter height: "))
hypotenuse = math.sqrt(base**2 + height**2)
print("Hypotenuse:", hypotenuse)
```

output:

Enter base: 3 Enter height: 4 Hypotenuse: 5.0

Chapter:	1
Unit:	5
Student Name:	Aman Dhaubanjar

1.

n = int(input("Enter an integer: "))

is_odd = n % 2 != 0

print("Is the integer odd?:", is_odd)

output:

Enter an integer: 5

Is the integer odd?: True

2.

n = int(input("Enter an integer: "))

is_even_in_range = 0 <= n <= 100 and n % 2 == 0

print("Is even and in range?:", is_even_in_range)

output:

Enter an integer: 6

Is even and in range?: True

Chapter:	1
Unit:	6

Student Name: Aman Dhaubanjar

```
1.
game_score = int(input("Enter game score: "))
if game_score > 1000:
  print("You are a master.")
output:
Enter game score: 1500
You are a master.
2.
num = int(input("Enter integer:"))
if num>0:
  print("x=", num)
  print(num, "is a natural number")
else:
  print("x=", num)
output:
Enter integer: 6
x= 6
6 is a natural number
```

Chapter:	1
Unit:	7
Student Name:	Aman Dhaubanjar

```
1.
```

```
ch = (input("Enter the alphabet"))
if ch.lower() in ['a', 'e', 'i', 'o', 'u']:
    print(f"{ch} is a vowel")

else:
    print(f"{ch} is a consonant")

output:
Enter the alphabet b
b is a consonant

2.

n = input("Enter two integers:").split()
a = int(n[0])
b = int(n[1])
if a%b ==0:
```

print(f"{a} is a multiple of {b}")

output:

Enter two integers: 4 2 4 is a multiple of 2

Chapter:	1
Unit:	8
Student Name:	Aman Dhaubanjar

1.

```
bts = ['V', 'J-Hope', 'RM', 'Jungkook', 'Jin', 'Jimin', 'Suga']
for member in bts:
```

```
print(member)
output:
٧
J-Hope
RM
Jungkook
Jin
Jimin
Suga
2.
print("Sum of integers from 1 to 100:", sum(range(1, 101)))
output:
Sum of integers from 1 to 100: 5050
3.
print("Sum of even numbers from 1 to 100:", sum(range(2, 101, 2)))
output:
Sum of even numbers from 1 to 100: 2550
4.
print("Sum of odd numbers from 1 to 100:", sum(range(1, 101, 2)))
output:
Sum of odd numbers from 1 to 100: 2500
```

Chapter:	1
Unit:	9

Student Name:

Aman Dhaubanjar

```
1.
```

```
for i in range(1, 10): 
 print(f"2 * \{i\} = \{2*i\}")
```

output:

2 * 1 = 2

2 * 2 = 4

2 * 3 = 6

2 * 4 = 8

2 * 5 = 10

2 * 6 = 12

2 * 7 = 14

2 * 8 = 16

2 * 9 = 18

2.

n=1

while(n < = 9):

i=1

while (i < = 9):

 $print(f''\{n\} * \{i\} = \{n*i\}'')$

i+=1

n+=1