Pair Programming Worksheet

Chapter:	1
Unit:	1
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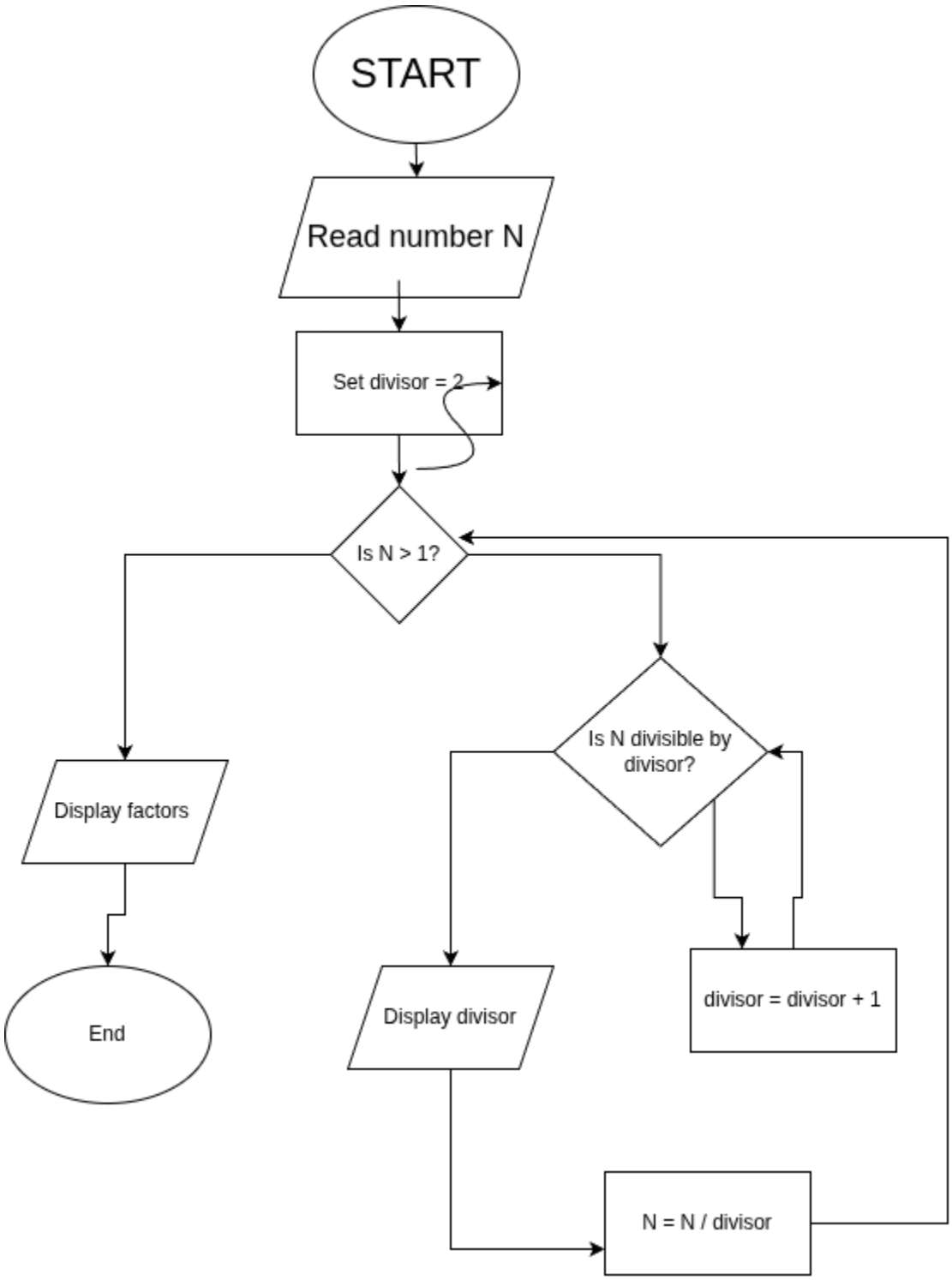
In [1]:
```
#unit 1
```

In [2]:
```
#qn 1
#  Code seven lines of print() function to produce a result like below.

print("    *")
print("   ***")
print("  *****")
print("*********")
print("  *****")
print("   ***")
print("    *")
```

```
    *
   ***
  *****
*********
  *****
   ***
    *
```

unit2



In [3]:
```
#unit 3

# q1
print(" 5! =" , 5*4*3*2*1)
```

```
print("10!=" , 10*9*8*7*6*5*4*3*2*1)
```

```
 5! = 120
10!= 3628800
```

In [5]:
```
#unit 4
#q1
PI = 3.141592

radius = float(input("Enter the radius of a circle: "))

circumference = 2 * radius * PI
area = PI * radius * radius

print("Circumference of a circle =", circumference,"Area of a circle =", area)
```

```
Enter the radius of a circle: 11
Circumference of a circle = 69.115024 Area of a circle = 380.13263200000006
```

In [6]:
```
#q2
n = int(input("Enter value of n "))

print("a   n  a**n")
for a in range(2, 7):
    print(a, " ",n," ",a ** n)
```

```
Enter value of n 2
a   n  a**n
2   2   4
3   2   9
4   2   16
5   2   25
6   2   36
```

In [7]:
```
#unit 5

#q1
n = int(input("Enter a 3-digit integer: "))

if n // 100 == 3:
    print(True)
else:
    print(False)
```

```
Enter a 3-digit integer: 321
True
```

In [8]:
```
#q2
n = int(input("Enter an integer: "))

if n % 5 == 0:
    print(True)
else:
    print(False)
```

```
Enter an integer: 125
True
```

In [9]:
```python
#unit 6

#q1
age = int(input("Enter age: "))

if age >= 20:
    print("Adult")
elif age >= 10 and age<20:
    print("Youth")
else:
    print("Kid")
```

```
Enter age: 16
Youth
```

In [ ]:
```python
#q2
# print mistake in question
```

In [10]:
```python
#unit 7

#q1

print("1) Addition 2)Subtraction 3)Multiplication 4)Division")

a = int(input("Enter first number: "))
b = int(input("Enter second number: "))

choice= int(input("Enter the desired number of  operation "))

if choice == 1:
    print(a + b)
elif choice== 2:
    print(a - b)
elif choice == 3:
    print(a * b)
elif choice == 4:
    print(a / b)
else:
    print("Entered an incorrect number")
```

```
1) Addition 2)Subtraction 3)Multiplication 4)Division
Enter first number: 10
Enter second number: 20
Enter the desired number of  operation 1
30
```

In [11]:
```python
#q2
x = int(input("Enter x: "))
y = int(input("Enter y: "))

if x==0 and y==0:
```

```
  print("at the origin")
elif x==0:
    print("on the y-axis")
elif y==0:
    print("on the x-axis")
elif x > 0 and y > 0:
    print("first Quadrant ")
elif x < 0 and y > 0:
    print("second Quadrant")
elif x < 0 and y < 0:
    print(" third Quadrant")
elif x > 0 and y < 0:
    print("fourth Quadrant")
else:
    print("invalid coordinate")
```

```
Enter x: -5
Enter y: 6
second Quadrant
```

In [12]:

```
#q3
print("Welcome to yummy restaurant , Here is the menu")
print("- Burger enter b")
print("- Chicken enter c")
print("- Pizza enter p")

choice = input("Choose a menu enter (b c p):").lower()
if choice == 'b':
    print("You chose burger")
elif choice == 'c':
    print("You chose chicken")
elif choice == 'p':
    print("You chose pizza")

if choice != 'b' and choice != 'c' and choice != 'p':
    choice = input("enter the menu again: ").lower()
```

```
Welcome to yummy restaurant , Here is the menu
- Burger enter b
- Chicken enter c
- Pizza enter p
Choose a menu enter (b c p):b
You chose burger
```

In [13]:

```
#unit 8
#q1

n= int(input("enter the number (N):"))

num=1

for i in range(n):
    row = []
    for j in range(n):
```

```
        row.append(num)
        num += 1
    if i % 2 == 1:
        row.reverse()

    for numm  in row:
        print(numm, end="\t")
    print("\n")
```

```
enter the number (N):5
1	2	3	4	5

10	9	8	7	6

11	12	13	14	15

20	19	18	17	16

21	22	23	24	25
```

In [14]:
```
#unit 9

#q1
n = int(input("Enter an integer "))
org = n
rev = 0

while n > 0:
    digit = n % 10
    rev = rev * 10 + digit
    n = n // 10

if rev == org:
    print(org," is a palindrome number.")
else:
    print(org," is not a palindrome number.")
```

```
Enter an integer 121
121  is a palindrome number.
```

In [15]:
```
#q2

import random

correct = random.randint(1, 100)

guess =0
count=0

while guess != correct:
    guess = int(input("Guess the number (1-100): "))

    if guess < correct:
```

```
        print("higher")
    elif guess > correct:
        print("lower")
    else:
        print("Congratulations.,correct ans was",guess,"total try=",count)
    count+=1
```

```
Guess the number (1-100): 20
higher
Guess the number (1-100): 50
higher
Guess the number (1-100): 70
higher
Guess the number (1-100): 80
higher
Guess the number (1-100): 90
lower
Guess the number (1-100): 85
higher
Guess the number (1-100): 87
lower
Guess the number (1-100): 86
Congratulations.,correct ans was 86 total try= 7
```

In [ ]:

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In [ ]: