DAY -3 MORNING ASSESSMENT

1. for i in range(1,11):

print(i)

O/P:

1

2

3

4

5

6

7

8

9

10

2. for i in range(1,21):

if i%2==0:

print(i)

O/P:

2

4

6

8

10

12

14

16

18

20

3. for i in range(1,21,2):

print(i,end=" ")

o/p: 1 3 5 7 9 11 13 15 17 19

4. for i in range(10,0,-1):

print(i,end=" ")

o/p: 10 9 8 7 6 5 4 3 2 1

5. for i in range(1,11):

print(i\*5,end=" ")

o/p: 5 10 15 20 25 30 35 40 45 50

6. for i in range(1,6):

print(i\*\*2,end=" ")

o/p: 1 4 9 16 25

7. n=int(input("enter the value of n:"))

for i in range(1,n+1):

print(i,end=" ")

o/p: enter the value of n:5

1 2 3 4 5

8. for i in range(1,100):

if i%7==0:

print(i,end=" ")

o/p: 7 14 21 28 35 42 49 56 63 70 77 84 91 98

=== Code Execution Successful ===

9. for i in range(1,51):

if i%2==0:

print(f"{i} is even")

else:

print(f"{i} is odd")

o/p: 1 is odd

2 is even

3 is odd

4 is even

5 is odd

6 is even

7 is odd

8 is even

9 is odd

10 is even

11 is odd

12 is even

13 is odd

14 is even

15 is odd

16 is even

17 is odd

18 is even

19 is odd

20 is even

21 is odd

22 is even

23 is odd

24 is even

25 is odd

26 is even

27 is odd

28 is even

29 is odd

30 is even

31 is odd

32 is even

33 is odd

34 is even

35 is odd

36 is even

37 is odd

38 is even

39 is odd

40 is even

41 is odd

42 is even

43 is odd

44 is even

45 is odd

46 is even

47 is odd

48 is even

49 is odd

50 is even

10. for i in range(1,11):

print("number:",i,"its square:",i\*i)

o/p: number: 1 its square: 1

number: 2 its square: 4

number: 3 its square: 9

number: 4 its square: 16

number: 5 its square: 25

number: 6 its square: 36

number: 7 its square: 49

number: 8 its square: 64

number: 9 its square: 81

number: 10 its square: 100

# For loop with lists

11. list=[1,2,3,3,4,5]

for element in list:

print(element,end=" ")

o/p: 1 2 3 3 4 5

12. list=[1,-2,3,-3,4,5,-1]

for element in list:

if element>0:

print(element,end=" ")

o/p: 1 3 4 5

13. list=[1,-2,3,77,99,10]

for element in list:

if element>50:

print(element,end=" ")

o/p: 77 99

14. list=['Apple','Banana','Papaya','ALL']

for element in list:

if element.startswith('A'):

print(element)

o/p: Apple

ALL

15. list=[1,2,3,4,5,6,7,8,9]

count\_of\_even=0

for i in list:

if i%2==0:

count\_of\_even+=1

print(count\_of\_even)

o/p: 4

16. list=[1,2,3,4,5,6,7,8,9]

for i in list:

if i%3==0:

print(i)

o/p:

3

6

9

17. list=[1,99,6,7,2,4]

maximum=-1

for element in list:

if element>maximum:

maximum=element

print(maximum)

o/p: 99

18. list=[1,99,6,7,2,4,-1]

minimum=list[0]

for element in list:

if element<minimum:

minimum=element

print(minimum)

o/p: -1

19. list=[1,2,3]

sum=0

for element in list:

sum+=element

print(sum)

o/p: 6

20. list=[1,2,3]

sum=0

for element in list:

sum+=element

avg=sum/len(list)

print(avg)

o/p: 2.0

# For loop with ranges and conditions:

21. for i in range(2,51):

is\_prime=True

for j in range(2,i):

if i%j==0:

is\_prime=False

break

if is\_prime:

print(i,end=" ")

o/p: 2 3 5 7 11 13 17 19 23 29 31 37 41 43 47

22. for i in range(1,101):  
 if i % 2 == 0 and i % 5 == 0:  
 print(i,end=" ")

o/p: 10 20 30 40 50 60 70 80 90 100

23. . for i in range(1, 31):

print("Fizz" if i % 3 == 0 else i)

o/p:

1

2

Fizz

4

5

Fizz

7

8

Fizz

10

11

Fizz

13

14

Fizz

16

17

Fizz

19

20

Fizz

22

23

Fizz

25

26

Fizz

28

29

Fizz

24. for i in range(5):

print("Hello")

o/p:

Hello

Hello

Hello

Hello

Hello

25. n = 3

f = 1

for i in range(1, n+1):

f \*= i

print(f)

o/p:6

26. s = "Hello World"

c = 0

for i in s:

c += i.lower() in 'aeiou'

print(c)

o/p:3

27. s = "vidya"

rev = " "

for i in s:

rev = i + rev

print(rev)

o/p: aydiv

28. n = 1234

s = 0

for d in str(n):

s += int(d)

print(s)

o/p:10

29. n = 5

for i in range(1, 11):

print(f"{n} x {i} = {n\*i}")

o/p: 5 x 1 = 5

5 x 2 = 10

5 x 3 = 15

5 x 4 = 20

5 x 5 = 25

5 x 6 = 30

5 x 7 = 35

5 x 8 = 40

5 x 9 = 45

5 x 10 = 50

30. n = 121

s = str(n)

rev = ""

for i in s:

rev = i + rev

print("Palindrome" if s == rev else "Not Palindrome")

o/p: Palindrome

# **If-Else with User Input:**

31. n = int(input())

print("Positive" if n > 0 else "Negative" if n < 0 else "Zero")

o/p:

Input: -1

Output: Negative

32. y = int(input())

print("Leap Year" if y%4==0 and (y%100!=0 or y%400==0) else "Not Leap Year")

o/p:

Input: 2023

o/p: Not Leap year

33. n = int(input())

print("Even" if n % 2 == 0 else "Odd")

input: 9

o/p:odd

34. n = int(input())

print("Divisible" if n % 5 == 0 and n % 11 == 0 else "Not Divisible")

input: 55

o/p:Divisible

35. ch = input().lower()

print("Vowel" if ch in 'aeiou' else "Consonant")

input:A

o/p:Vowel

36. n = int(input())

print("Three-digit" if 100 <= n <= 999 or -999 <= n <= -100 else "Not three-digit")

input:123

o/p:Three-digit

37. ch = input()

print("Uppercase" if ch.isupper() else "Lowercase")

input: A

o/p: Uppercase

38. age = int(input())

print("Eligible" if age >= 18 else "Not Eligible")

input: 20

o/p: Eligible

39. n = int(input())

print("Both" if n%2==0 and n%3==0 else "2" if n%2==0 else "3" if n%3==0 else "None")

input:6

o/p:Both

40. n = int(input())

print("Zero" if n == 0 else "Even" if n%2 == 0 else "Odd")

input:6

o/p:Even