**QWS1 (a):**

**ANS-**

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

for i in range(n,0,-1):

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

print(j,end=" ")

print()

**QWS1(b):**

**ANS-**

n="ABCDE"

for i in range(0,len(n)+1):

print(n[:i])

**QWS2:**

**ANS-**

x = float(input("Enter the value of x: "))

result = -2 + x

term = 1

denominator = 1

for i in range(5):

term \*= x

denominator \*= (i + 1)

result += term / denominator

print("-2 +", x, "+ 1 + 0 + 0 + 0 =", result)

**QWS3:**

**ANS-**

n = int(input("Enter a number: "))

sum = 0

temp = n

while temp > 0:

digit = temp % 10

sum += digit \*\* 3

temp //= 10

if n == sum:

print(n,"is an Armstrong number")

else:

print(n,"is not an Armstrong number")

**QWS4:**

**ANS-**

n = input("ENTER THE NUMBER:")

reverse = n[::-1]

if n == reverse:

print('Palindrome')

else:

print("Not Palindrome")

**QWS5:**

**ANS-**

i=int(input("Enter a number to check: "))

count=0

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

Remain=i%n

if (Remain==0):

count=count+1

if (count==1):

print("The number is neither prime nor composite.")

if(count==2):

print("The number is a prime number.")

elif(count>=3):

print("The number is a composite number.")