**DAY-1**

Arithmetic operations:

a=5

b=8

print("addition:",a+b)

print("subtraction:",a-b)

print("multiplication:",a\*b)

print("modulus:",a%b)

print("division:",a/b)

print("floor division:",a//b)

print("exponential:",a\*\*b)

OUTPUT:

addition: 13

subtraction: -3

multiplication: 40

modulus: 5

division: 0.625

floor division: 0

exponential: 390625

Relational operators:

a=13

b=33

print(a>b)

print(a<b)

print(a==b)

print(a>=b)

print(a<=b)

print(a!=b)

OUTPUT:

False

True

False

False

True

True

ASSIGNMENT OPERATOR:

a=10

b=a

b+=a

print(b)

b-=a

print(b)

b\*=a

print(b)

b<<=a

print(b)

OUTPUT:

20

10

100

102400

BITWISE OPERATOR:

a=10

b=4

print(a&b)

print(a|b)

print(a>>b)

print(a<<b)

print(a^b)

print(~a)

OUTPUT:

0

14

0

160

14

-11

IDENTITY OPERATOR:

a=10

b=20

c=a

print(a is not b)

print(a is c)

OUTPUT:

True

True

MEMBERSHIP OPERATOR:

x=24

y=20

list=[10,20,30,40]

if("y in list" ):

print("y is present in list")

else:

print("y is not in list")

OUTPUT:

y is present in list

CONDITIONAL STATEMENTS:

a=10

b=12

c=30

if(a>b and a<c):

print(a)

elif(b>a and b>c):

print(b)

elif(c>a and c>b):

print(c)

OUTPUT:

30

AVAILABLE BALANCE:

amount=5000

wd=int(input("money:"))

if(wd<amount):

bal=amount-wd

print(bal)

else:

print("insufficient")

OUTPUT:

money:3000

2000

PRINT EVEN NUMBER:

for i in range(0,50):

if(i%2==0):

print(i,end=" ")

OUTPUT:

0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48

INFINITE LOOP USING WHILE:

i=100

while(i>0):

i=i-5

print(i,end=" ")

i=i+5

OUTPUT:

Infinite 95’s

AVAILABLE BALANCE:

bal=10000

while(bal>=0):

wd=int(input("enter the money:"))

bal=bal-wd

print(f" available balance={bal}")

if (bal<0):

print("insufficient funds")

OUTPUT:

enter the money:200

available balance=9800

enter the money:300

available balance=9500

enter the money:9500

available balance=0

enter the money:200

available balance=-200

insufficient funds

PROGRAM FOR CHECK BALANCE,DEPOSIT,WITHDRAW

balance = 0

def check\_balance():

print(f"Your current balance is: {balance}")

def deposit():

global balance

amount = float(input("Enter amount to deposit: "))

if amount > 0:

balance += amount

print(f"₹{amount} deposited successfully.")

else:

print("Invalid deposit amount.")

def withdraw():

global balance

amount = float(input("Enter amount to withdraw: "))

if amount > balance:

print("Insufficient balance.")

elif amount <= 0:

print("Invalid withdrawal amount.")

else:

balance -= amount

print(f"{amount} withdrawn successfully.")

while True:

print("\n--- Bank Menu ---")

print("1. Check Balance")

print("2. Deposit Amount")

print("3. Withdraw Amount")

print("4. Exit")

choice = input("Enter your choice (1-4): ")

if choice == '1':

check\_balance()

elif choice == '2':

deposit()

elif choice == '3':

withdraw()

elif choice == '4':

print("Thank you for using the bank system.")

break

else:

print("Invalid choice. Please enter 1 to 4.")

OUTPUT:

--- Bank Menu ---

1. Check Balance

2. Deposit Amount

3. Withdraw Amount

4. Exit

Enter your choice (1-4): 1

Your current balance is: 0

--- Bank Menu ---

1. Check Balance

2. Deposit Amount

3. Withdraw Amount

4. Exit

Enter your choice (1-4): 2

Enter amount to deposit: 20000

₹20000.0 deposited successfully.

--- Bank Menu ---

1. Check Balance

2. Deposit Amount

3. Withdraw Amount

4. Exit

Enter your choice (1-4): 3

Enter amount to withdraw: 10000

10000.0 withdrawn successfully.

--- Bank Menu ---

1. Check Balance

2. Deposit Amount

3. Withdraw Amount

4. Exit

Enter your choice (1-4): 4

Thank you for using the bank system.