```
b=7
e=7
print(a is e)
print(id(e))
print(a is b)
print(a is not b)
print(id(a))
print(id(b))

False
140728243819496
False
True
140728243819432
140728243819496

c=[1,2,3]
d=[1,2,3]
print(c is d)
print(id(c))
print(c is not d)
print(id(d))

False
2321671965568
True
2321688790656

# PROGRAM CONTROL FLOW
#if statement
syntax:
    body of the statement
    space in before

#program to check whether the given value is odd or even
n=int(input('enter your number:'))
if n%2==0:
    print(n,'is a even number')


enter your number:76
76 is a even number

#if else statement
n=int(input('enter your number:'))
if n%2==0:
        print(n,'is a even number')
else:
    print(n,'is a odd number')
```

```
enter your number:7
7 is a odd number

#voting system program -age-above 18 eligible to vote
age=int(input('enter your age:'))
if age>=18:
    print(age,'is eligible')
else:
    print(age,'is not eligible')

enter your age:20
20 is eligible

#to find the given year is leap year or not
year=int(input('enter the year:'))
if year%4==0:
    print(year,'is leap year')
else:
    print(year,'is not leap year')

enter the year:2003
2003 is not leap year

#palindrome of a given number or string
n=str(input('enter the string:'))
if n==n[::-1]:
    print(n,'is palindrome')
else:
    print(n,'is not palindrome')

enter the string:'OPPO'
'OPPO' is palindrome

n=str(input('enter the number:'))
if n==n[::-1]:
    print(n,'is palindrome')
else:
    print(n,'is not palindrome')


enter the number:'1001'
'1001' is palindrome

#find the greater of two

a=int(input('enter number a:'))
b=int(input('enter number b:'))
print('greater than is:',b>a)
print('greater than equal to:',b>=a)
```

```
enter number a:5
enter number b:7
greater than is: True
greater than equal to: True
```

```
#find the lesser of two

a=int(input('enter number a:'))
b=int(input('enter number b:'))
print('less than is:',b<a)
print('less than equal to:',a<=b)
```

```
enter number a:5
enter number b:7
less than is: False
less than equal to: True
```

```
#find the particular charecter is vowel or not
v=input('enter the word:')
if (v=='a'or v=='e' or v=='i' or v=='o' or v=='u'):
    print(v,'is vowel')
elif (v=='A' or v=='E' or v=='I' or v=='O' or v=='U'):
    print(v,'is vowel')
else:
    print(v,'is not vowel')
```

```
enter the word:O
O is vowel
```

```
#find the particular charecter is a alphabet upper case or lower case
or number

a=input('enter the charecter:')
if (a>='A' and a<='Z'):
    print(a,'is uppercase alphabet')
elif (a>='a' and a<='z'):
    print(a,'is lowercase alphabet')
elif (a>='0' and a<='9'):
    print(a,'is number')
```

```
enter the charecter:J
J is uppercase alphabet
```

```
#count vowels in a string using python string of vowels
vowels='aeiou'
#enter an input string
user_input=input('enter the string:')
#convert string in case insensitive
string=user_input.casefold()
#create a dictionary with each vowel a key and value 0
count_vowels={}.fromkeys(vowels, 0)
```

```python
#count the number of each vowels
for x in string:
    if x in count_vowels:
        count_vowels[x]+= 1
print('total number of vowels -',count_vowels)
```

```
enter the string:Lavanya Sree P
total number of vowels - {'a': 3, 'e': 2, 'i': 0, 'o': 0, 'u': 0}
```

DAY-11 (01-07-2023)

```python
#If elif else statement

#python program to check whether the given number is positive or not
n=int(input('enter the number'))
if n>0:
    print(n,'is a positive number')
elif n==0:
    print(n,'is zero')
else:
    print(n,'is nrgative number')
```

```
enter the number7
7 is a positive number
```

```python
#nested if - condition inside another condition
#python program to check whether the given number is positive or not
n=int(input('enter the number:'))
if n>=0:
    if n==0:
        print(n,'is zero')
    else:
        print(n,'is positive')
else:
     print(n,'is negative')
```

```
enter the number:0
0 is zero
```

```python
#looping - it will execute in sequential order
# For loop
#syntax:
for variable name in iteration:
    body of the statement

li=[11.7,45,78,90,84,72]
for i in li:
    print(i)
```