**Python Practice Questions: If-Else and Nested If-Else:(17-july task)**

1. **Check Positive or Negative**  
   Write a Python program to check whether a number entered by the user is positive, negative, or zero.

num1=int(input('enter number'))

if num1>0:

    print('positive')

else:

    if num1==0:

        print('zero')

    else:

        print('negative')

1. **Even or Odd**  
   Write a program to input a number and check whether it is even or odd using an if-else statement.

num1=int(input("enter num"))

if num1 %2>=0:

 print('even')

else:

 print('odd')

1. **Check Leap Year**  
   Write a Python program to check whether a given year is a leap year or not.

* A year is a leap year if it is divisible by 4 but not by 100, unless it’s also divisible by 400.

num1=2024

if num1 %4==0:

    print('leap year')

if num1 %100==0:

     print('not a leap year')

1. **Greatest of Two Numbers**  
   Write a program that takes two numbers from the user and prints which one is greater.

num1=int(input('enter number'))

num2=int(input('enter number'))

if num1 >num2:

    print('num1 is greater')

else:

    print('num 2 is greater')

1. **Voting Eligibility**  
   Ask the user for their age. If the age is 18 or more, print “Eligible to vote”, else print “Not eligible”.

user\_age=int(input('enter your age'))

if user\_age>=18:

    print('eligible to vote')

else:

    print('not eligible')

1. **Grade Checker**  
   Accept marks from the user and print the grade:

* Marks >= 90 → Grade A   
  75–89 → Grade B   
  60–74 → Grade C   
  40–59 → Grade D   
  Below 40 → Fail

user\_marks=int(input('enter marks'))

if user\_marks>=90:

    print('grade A')

if user\_marks>=75 and user\_marks<90:

    print('grade B')

if user\_marks>=60 and user\_marks<75:

    print('grade C')

if user\_marks>=40 and user\_marks<60:

    print('grade D')

if user\_marks<=40:

    print('fail')

1. **Number Type Checker**  
   Ask the user to enter a number. Check:
   * If it is **positive**, check if it’s even or odd.
   * If it’s **negative**, print “Negative number”.
   * If it’s **zero**, print “Zero”.

num1=int(input('enter number'))

if num1%2==0:

 print('even')

else:

 if num1==0:

  print('zero')

 else:

  if num1<0:

   print('negative')

  else:

   print('odd')

1. **Simple Calculator**  
   Ask the user to input two numbers and an operator (+, -, \*, /). Use if-else to perform the correct operation and show the result.

num1=int(input('enter number'))

num2=int(input('enter number'))

num3=(input('enter operator'))

if num3=='+':

 print(num1+num2)

else:

 if num3=="-":

  print(num1-num2)

 else:

  if num3=='\*':

   print(num1\*num2)

  else:

   print(num1/num2)