**Full Stack Web Development using Python**

**Assignment – 6 : Decision Control**

1. Write a python script to check whether a given number is positive or non-positive.

print("Positive" if int(input("Enter a number"))>0 else "Non-Positive")

1. Write a python script to check whether a given number is divisible by 5 or not

print("Divisible" if int(input("Enter a number"))%5==0 else "Not Divisible")

1. Write a python script to check whether a given number is even or odd

print("Even" if int(input("Enter a number"))%2==0 else "Odd")

1. Write a python script to print greater between two numbers. Print number only once even if the numbers are the same.

print("Enter two numbers")

a,b= int(input()),int(input())

print( a if a>b else b)

1. Write a python script to print two given words in dictionary order

print("Enter two words")

x,y=input(),input()

print((y,x) if x>y else (x,y))

1. Write a python script to check whether a given number is a three digit number or not.

x=int(input("Enter a numbers"))

print("Three digit number" if x>99 and x<1000 else "Not a 3 digit number")

1. Write a python script to check whether a given number is positive, negative or zero.

x=int(input("Enter a numbers"))

if x>0:

print("Positive")

elif x<0:

print("Negative")

else:

print("Zero")

1. Write a python script to check whether a given quadratic equation has two real & distinct roots, real & equal roots or imaginary roots

print("Enter value of a,b and c of quadratic equation")

x,y,z=int(input()),int(input()),int(input())

d=b\*\*2-4\*a\*c

if d>0:

print("Real and distinct")

elif d==0:

print("Real and Equal roots")

else:

print("imaginary roots")

1. Write a python script to check whether a given year is a leap year or not.

year=int(input("Enter year number"))

print( "Leap Year" if year%400==0 or year%100!=0 and year%4==0 else "Non Leap Year")

1. Write a python script to print greater among three numbers. Print number only once even if the numbers are the same.

print("Enter three number:")

a,b,c=int(input()),int(input()),int(input())

print((a if a>c else c) if a>b else (b if b>c else c))

1. Write a python script to take the month value in numeric format and display the number of days in it.

month=int(input("Enter month number"))

if month in (1,2,5,7,8,10,12):

print("31 days")

elif month in (4,6,9,11):

print("30 days")

elif month==2:

print("28 or 29 days")

else:

print("invalid input")

1. Write a python script to accept one complex number from the user and display the greater number between real part and imaginary part

a=complex(input("Enter a complex number:"))

print( a.real if a.real>a.imag else a.imag)