

## ASSIGNMENT 2

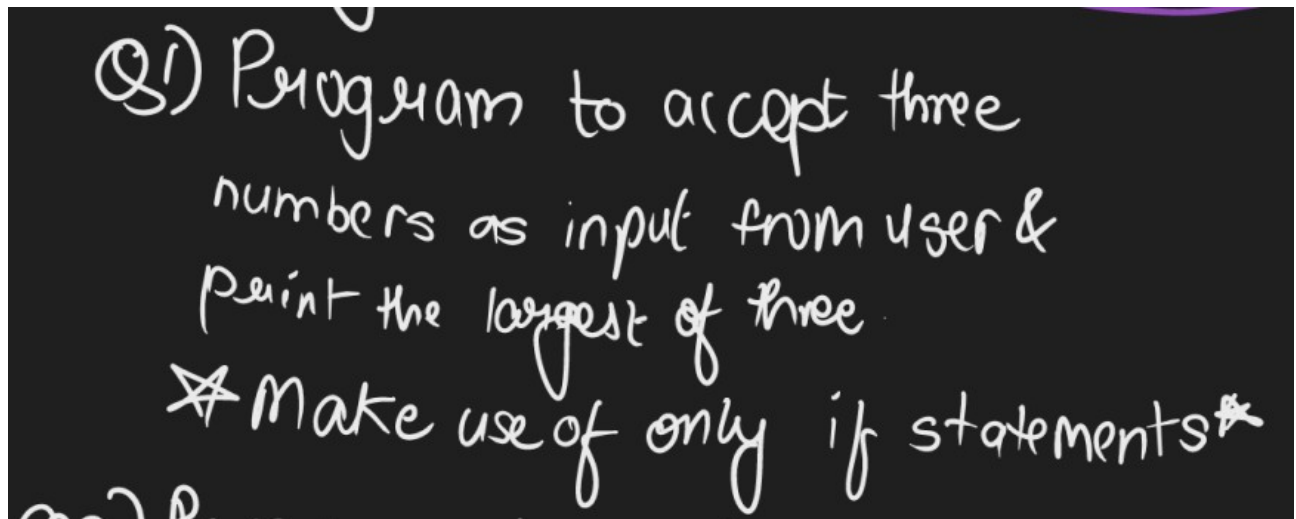
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**Course name:** Python AI ML

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### QUESTION 1



### CODE

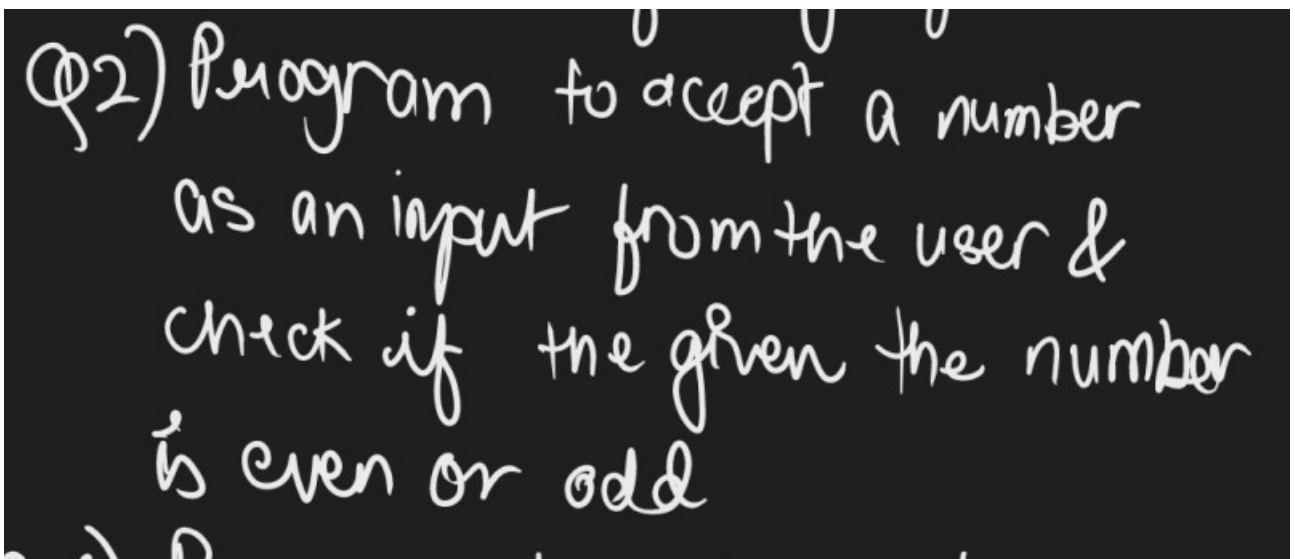
```
n1=int(input("enter first number:"))
n2=int(input("enter second number:"))
n3=int(input("enter third number:"))
if(n1>n3 and n1>n2):
    print("{} is largest number".format(n1))
if(n2>n1 and n2>n3):
    print("{} is largest".format(n2))
if(n3>n1 and n3>n2):
    print("{} is largest number".format(n3))
```

## OUTPUT

```
In [6]: # question1) largest of three no using only if statements
n1=int(input("enter first number:"))
n2=int(input("enter second number:"))
n3=int(input("enter third number:"))
if(n1>n3 and n1>n2):
    print("{} is largest number".format(n1))
if(n2>n1 and n2>n3):
    print("{} is largest".format(n2))
if(n3>n1 and n3>n2):
    print("{} is largest number".format(n3))

enter first number:123
enter second number:4
enter third number:66777
66777 is largest number
```

## QUESTION 2



Q2) Program to accept a number as an input from the user & check if the given the number is even or odd

## CODE

```
num=int(input("enter a number:"))
if(num%2==0):
    print("{} is even number".format(num))
else:
    print("{} is odd number".format(num))
```

## OUTPUT

```
In [21]: #QUES 2: even or odd
num=int(input("enter a number:"))
if(num%2==0):
    print("{} is even number".format(num))
else:
    print("{} is odd number".format(num))
```

```
enter a number:12
12 is even number
```

```
In [20]: #QUES 2: even or odd
num=int(input("enter a number:"))
if(num%2==0):
    print("{} is even number".format(num))
else:
    print("{} is odd number".format(num))
```

```
enter a number:12347
12347 is odd number
```

### QUESTION 3

is even or odd  
Q5) Program that inputs three numbers & calculates the following:

- ① Sum of all input numbers
- ② Sum of only non duplicate numbers ; if there are duplicate numbers in input then ignore them

eg :

Input			Answer	
a	b	c	①	②
2	3	4	9	9
3	2	3	8	2
4	4	4	12	0

## CODE

```
n1=int(input("enter first number:"))
n2=int(input("enter second number:"))
n3=int(input("enter third number:"))
sum=n1+n2+n3 #QUESTION 3.1
print("sum of all three input numbers are",sum)
if(n1==n2==n3): #QUESTION 3.2
    print("sum=0")
elif(n1==n2):
    print("sum of non-duplicate numbers are:",n3)
elif(n1==n3):
    print("sum of non-duplicate numbers are:",n2)
elif(n2==n3):
    print("sum of non-duplicate numbers are:",n1)
else:
    print("no duplicates and the sum is",sum)
```

## OUTPUT:

```
In [23]: '''QUES 3.1: to calculate sum of all three input numbers
          3.2: to calculate sum of non-duplicate numbers'''
```

```
n1=int(input("enter first number:"))
n2=int(input("enter second number:"))
n3=int(input("enter third number:"))
sum=n1+n2+n3
print("sum of all three input numbers are",sum)
if(n1==n2==n3):
    print("sum=0")
elif(n1==n2):
    print("sum of non-duplicate numbers are:",n3)
elif(n1==n3):
    print("sum of non-duplicate numbers are:",n2)
elif(n2==n3):
    print("sum of non-duplicate numbers are:",n1)
else:
    print("no duplicates and the sum is",sum)
```

```
enter first number:2
enter second number:3
enter third number:4
sum of all three input numbers are 9
no duplicates and the sum is 9
```

In [24]: '''QUES 3.1: to calculate sum of all three input numbers  
3.2: to calculate sum of non-duplicate numbers'''

```
n1=int(input("enter first number:"))
n2=int(input("enter second number:"))
n3=int(input("enter third number:"))
sum=n1+n2+n3
print("sum of all three input numbers are",sum)
if(n1==n2==n3):
    print("sum=0")
elif(n1==n2):
    print("sum of non-duplicate numbers are:",n3)
elif(n1==n3):
    print("sum of non-duplicate numbers are:",n2)
elif(n2==n3):
    print("sum of non-duplicate numbers are:",n1)
else:
    print("no duplicates and the sum is",sum)
```

```
enter first number:3
enter second number:2
enter third number:3
sum of all three input numbers are 8
sum of non-duplicate numbers are: 2
```

In [25]: '''QUES 3.1: to calculate sum of all three input numbers  
3.2: to calculate sum of non-duplicate numbers'''

```
n1=int(input("enter first number:"))
n2=int(input("enter second number:"))
n3=int(input("enter third number:"))
sum=n1+n2+n3
print("sum of all three input numbers are",sum)
if(n1==n2==n3):
    print("sum=0")
elif(n1==n2):
    print("sum of non-duplicate numbers are:",n3)
elif(n1==n3):
    print("sum of non-duplicate numbers are:",n2)
elif(n2==n3):
    print("sum of non-duplicate numbers are:",n1)
else:
    print("no duplicates and the sum is",sum)
```

```
enter first number:4
enter second number:4
enter third number:4
sum of all three input numbers are 12
sum=0
```

## QUESTION 4

Q4) Program to test divisibility  
a number from another  
number

eg:

```
Enter first number : 119
Enter second number : 3
119.0 is not divisible by 3.0
=====
Enter first number : 119
Enter second number : 17
119.0 is divisible by 17.0
=====
Enter first number : 1234.30
Enter second number : 5.5
1234.3 is not divisible by 5.5
```

## CODE

```
n1=float(input("enter first number:"))
n2=float(input("enter second number:"))
if(n1%n2==0):
    print("{} is divisible by {}".format(n1,n2))
else:
    print("{} is not divisible by {}".format(n1,n2))
```



## OUTPUT

```
In [12]: #ques 4: check divisibility of two numbers
n1=float(input("enter first number:"))
n2=float(input("enter second number:"))
if(n1%n2==0):
    print("{} is divisible by {}".format(n1,n2))
else:
    print("{} is not divisible by {}".format(n1,n2))

enter first number:119
enter second number:17
119.0 is divisible by 17.0
```

```
-----

In [26]: #ques 4: check divisibility of two numbers
n1=float(input("enter first number:"))
n2=float(input("enter second number:"))
if(n1%n2==0):
    print("{} is divisible by {}".format(n1,n2))
else:
    print("{} is not divisible by {}".format(n1,n2))

enter first number:119
enter second number:3
119.0 is not divisible by 3.0
```

```
In [27]: #ques 4: check divisibility of two numbers
n1=float(input("enter first number:"))
n2=float(input("enter second number:"))
if(n1%n2==0):
    print("{} is divisible by {}".format(n1,n2))
else:
    print("{} is not divisible by {}".format(n1,n2))

enter first number:1234
enter second number:5
1234.0 is not divisible by 5.0
```





