

Name Balram Choudhary

Id 201951039

Code for all questions:

```
#que1
print("welcome")

#que2
var1=input("Enter first Number for arthmetic operation: ")
var2=input("Enter second Nuber arthmetic operation: ")

a=float(var1)
b=float(var2)
print("addition is: "+str(a+b))
print("division is: "+str(a/b))
print("multiplication is: "+str(a*b))
print("subtraction is: "+str(a-b))

#que3
temp1=input("Enter first number  for max num: ")
temp2=input("Enter second number  for max num: ")

x=int(temp1)
y=int(temp2)

print("Maximum Number Using Built In Library : ", (max(x,y)))
print("Maximum Number Using If Statement: ", x if x>y else y)
print("Maximum Number Using Airthmetic Operators : ", (x+ y) / 2 +
abs(x- y) / 2)

#que4
var=input("enter Number for odd even: ")
a=int(var)

if a%2==0:
    print("this is Even")
else :
    print("this is odd")

#que5
nums=[]
flag=True
for num in range(1, 1001):
    # all prime numbers are greater than 1
    if num > 1:
        flag=True
        for i in range(2, num):
```

```

        if (num % i) == 0:
            flag=False
            break
    if flag==True:
        nums.append(num)
print(nums)

```

Output is:

```

*** Python 3.10.2 (tags/v3.10.2:a58ebcc, Jan 17 2022, 14:12:15) [MSC v.1929 6
4 bit (AMD64)] on win32. ***
*** Remote Python engine is active ***
>>>
*** Remote Interpreter Reinitialized ***
welcome
Enter first Number for arthmetic operation: 676.89
Enter second Nuber arthmetic operation: 21.8
addition is: 698.6899999999999
division is: 31.049999999999997
multiplication is: 14756.202
subtraction is: 655.09
Enter first number for max num: 456
Enter second number for max num: 23
Maximum Number Using Built In Library : 456
Maximum Number Using If Statement: 456
Maximum Number Using Airthmetic Operators : 456.0
enter Number for odd even: 78
this is Even
[2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71,
73, 79, 83, 89, 97, 101, 103, 107, 109, 113, 127, 131, 137, 139, 149, 151, 15
7, 163, 167, 173, 179, 181, 191, 193, 197, 199, 211, 223, 227, 229, 233, 239,
241, 251, 257, 263, 269, 271, 277, 281, 283, 293, 307, 311, 313, 317, 331, 3
37, 347, 349, 353, 359, 367, 373, 379, 383, 389, 397, 401, 409, 419, 421, 431
, 433, 439, 443, 449, 457, 461, 463, 467, 479, 487, 491, 499, 503, 509, 521,
523, 541, 547, 557, 563, 569, 571, 577, 587, 593, 599, 601, 607, 613, 617, 61
9, 631, 641, 643, 647, 653, 659, 661, 673, 677, 683, 691, 701, 709, 719, 727,
733, 739, 743, 751, 757, 761, 769, 773, 787, 797, 809, 811, 821, 823, 827, 8
29, 839, 853, 857, 859, 863, 877, 881, 883, 887, 907, 911, 919, 929, 937, 941
, 947, 953, 967, 971, 977, 983, 991, 997]
>>>

```