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In [5]: #Question 1
def power():
    """
    This function is to calcute x to the power y.
    x: It should be an interger.
    y: It should be an interger.
    """
    x=int(input("x="))
    y=int(input("y="))
    return x**y
print("x^y or x**y =", power())

x=2
y=14
x^y or x**y = 16384
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In [3]: #Question 2
s2=str(input("Please enter a string: "))
def count_words(s2):
    li = s2.split()
    return len(li)
print("Number of words:", count_words(s2))

Please enter a string: Arsh Saxena
Number of words: 2
```

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In [36]: def cal():
a=int(input("a="))
b=int(input("b="))
choice=input("Which operation do you want to perform? ")
if choice=="Addition":
    return a+b
elif choice=="Subtraction":
    return a-b
elif choice=="Multiplication":
    return a*b
elif choice=="Division":
    return a/b
elif choice=="Exponent":
    return a**b
else:
    return("Please enter a valid choice.")
print("Answer", "=", cal())
```

a=2004

b=1996

Which operation do you want to perform? Addition

Answer = 4000