

Test

Q.1:

ANS:

```
year=int(input("Enter a year: "))
if (year % 4 == 0 and year % 100 != 0) or (year % 400 == 0):
    print(year,"is a leap year.")
else:
    print(year,"is not a leap year")
```

OUTPUT:-

```
Enter a year: 2023
2023 is not a leap year
```

Q.2

ANS:

```
num=int(input("Enter a three digit number:"))
if(num<=1000 and num>=100):
    sum3=num%10
    num=num//10
    #print(sum3)
    sum2=num%10
    num=num//10
    #print(sum2)
    sum1=num%10
    num=num//10
    #print(sum1)
    if sum1==sum2*2 and sum1==sum3/2:
        print("Yes,u are done..!")
    else:
        print("plz try again")
else:
    print("Invalid input,Please enter a three-digit number")
```

OUTPUT:-

```
Enter a three digit number:428
Yes,u are done..!
```

Q.3

ANS:-

```
r=20
l=50
b=40
cost = 35
periciru = 3.14 * r
perirect = 2 * (l + b)
totalcost = (periciru + perirect) * cost
print("Total cost of fencing the field is Rs.",totalcost)
```

Output:-

Total cost of fencing the field is Rs. 8498.0

Q.4:

ANS:

```
cost= int(input("Enter the cost per square foot of painting: "))
size= int(input("Enter the size be painted for each wall: "))
total = 4 * size
totalcost = cost * size
print("The total cost of painting the interior is",totalcost)
```

Output:

```
Enter the cost per square foot of painting: 100
Enter the size be painted for each wall: 4
The total cost of painting the interior is 400
```

Q.5

ANS:

```
bill = 0
gst = 18/100
for i in range(1,6):
    productprice=int(input("Enter the price of Product ="))
    bill =bill+productprice
gstamt = bill * gst
totalbill = bill + gstamt
print("Total Bill (Before GST)",bill)
print("GST Amount 18%=",gstamt)
print("Total Bill (After GST):",totalbill)
```

OUTPUT:-

Enter the price of Product =500

```
Enter the price of Product =400
Enter the price of Product =300
Enter the price of Product =200
Enter the price of Product =100
Total Bill (Before GST) 1500
GST Amount 18%= 270.0
Total Bill (After GST): 1770.0
```