

# Sireesha

## Practice work

Q:1 Fiz Buzz with a Twist Write a Python program that prints numbers from 1 to 100, but:   
□ For multiples of 3, print "Fizz" instead of the number.   
□ For multiples of 5, print "Buzz".   
□ For numbers which are multiples of both 3 and 5, print "Fizz Buzz".   
□ For numbers that are prime, print "Prime".   
□ For all other numbers, print the number itself

```
In [4]: num=int(input("enter a number from 1 to 100"))
        if (num%5==0):
            print("Buzz")
        if (num%3==0):
            print("Fizz")
        elif (num%3==0 and num%5==0):
            print("Fizz Buzz")
        elif (num%num==0):
            print("prime")
        else:
            print(num)
```

Buzz  
prime

Q:2 Write a Python program that takes three integers as input. Print "Even" if the sum of all three numbers is even. Print "Odd" otherwise.

```
In [ ]: a=int(input("enter first number"))
        b=int(input("enter second number"))
        c=int(input("enter third number"))
        number=a+b+c
        if (number%2==0):
            print("even")
        else:
            print("odd")
```

In [ ]:

Q:4 Ask the user to input a number. Check whether the number is a palindrome (same forward and backward, like 121 or 1331).

```
In [275... num=int(input("enter a number"))
           if str(num)==str(num)[::-1]:
               print("palindrome")
           else:
               print("not")
```

palindrome

Q:5 Ask the user for a number, and print its multiplication table up to 10

```
In [6]: num=int(input("enter a number"))
        for i in range(1,11):
            print(num,"*",i,"=",num*i )
```

3 \* 1 = 3  
3 \* 2 = 6  
3 \* 3 = 9  
3 \* 4 = 12  
3 \* 5 = 15  
3 \* 6 = 18  
3 \* 7 = 21  
3 \* 8 = 24  
3 \* 9 = 27  
3 \* 10 = 30

In [ ]:

Q:7 Simple Discount Calculator Ask for purchase amount.   
□ If amount ≥ 5000, apply 20% discount   
□ If amount ≥ 2000, apply 10% discount   
□ Else, no discount Print final amount after discount.

```
In [395... price=int(input("enter the price"))
           if price>=5000:
               Discount= price*0.20
               n=price-Discount
               print(n)
           if price>=2000:
               discount=price*0.10
               n=price-discount
               print(n)
           else:
               print("no offer")
```

3510.0

Q:6Ask the user for a number and calculate its factorial using a loop.

```
In [68]: num = int(input("enter number"))
        factorial=1
        for i in range(1,num +1):
            factorial=factorial*i
        print("The factorial of", num, "is",factorial)
```

The factorial of 5 is 1  
The factorial of 5 is 2  
The factorial of 5 is 6

The factorial of 5 is 24  
The factorial of 5 is 120

In [ ]: