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Lab 1
1906188
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IT
2023 Batch
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Code 1 Find if the age is legal voting age or not using if only input: 65

```
age = int(input('age: '))
if(age >= 18):
    print("Legal voting age")
if(age < 18):
    print(f'wait for {18-age} years more to vote')

$\square$ 3.9s

Legal voting age</pre>
```

Code 2 Find if the age is legal voting age using if and else

```
if else

    age = int(input('age: '))
    if(age >= 18):
        print("Legal voting age")
    else:
        print(f'wait for {18-age} years more to vote')

Legal voting age
```

```
command = input('Command: ')
if(command == "Hello"):
    print("Hello")
elif(command == "Hi"):
    name = input('Name: ')
    print(f"Hi, {name}")
elif(command == "namaste"):
    name = input('Name: ')
    print(f"namaste, {name}")
else:
    print(f"Good to meet you {command}")
Good to meet you Pratyush
```

Code 4

Use for loop to print an array using indexing schemes

Code 5 print array using range based for loop

```
Range based for

for x in arr:
    print(x)

1
2
3
5
6
```

Code 6 print array using print function

```
print(arr)
[1, 2, 3, 5, 6]
```

Code 7
Build an Chat app using while and if elif else

```
i=0
   while(i<5):
       i+=1
       command = input('Command: ')
       if(command == "Hello"):
           print("Hello")
       elif(command == "Hi"):
           name = input('Name: ')
           print(f"Hi, {name}")
       elif(command == "namaste"):
           name = input('Name: ')
           print(f"namaste, {name}")
       else:
           print(f"Good to meet you {command}")
Hello
Hi, Pratyush
namaste, India
Good to meet you Soumya
Hello
```

```
n = int(input('n: '))
   for i in range(n):
      print(('*' * (i+1), end="")
      print(' ' * (2*(n-i)-2), end="")
      print('*' * (i+1))
   for i in range(1, n):
      print('*' * (n-i), end='')
      print(' ' * (2*i), end='')
      print('*' * (n-i))
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           *
```

Code 9 Print a lower triangle

Code 10 Print an upper triangle