```
In [1]: age = 6
   if age >= 18:
        print("You are eligible to vote.")
   elif age <= 5:
        print("You are still a toddler.")
   elif age >=6 and age <= 10:
        print("You should enrol in a school with Form-B.")
   else:
        print("Abhi chotay ho ap.")</pre>
```

You should enrol in a school with Form-B.

Examples

```
if temp >= 30:
    print("It's a hot day. Thanda pani pee lo")
elif temp <= 10:
    print("It's a cold day. Garam chai pee lo.")
else:
    print("It's neither hot nor cold. Enjoy the weather.")</pre>
```

It's a hot day. Thanda pani pee lo

```
if occassion = "Eid"

if occassion == "Eid-ul_Fitr":
    print("Let's prepare some Sheer Khurma.")
elif occassion == "Eid-ul_Adha":
    print("Let's prepare some Kebab.")
else:
    print("It's a normal day. let's have Aalo Gobhi.")
```

It's a normal day. let's have Aalo Gobhi.

Nested If statements

```
In [4]: age = 18
license = True

if age >= 18:
    if license:
        print("You are eligible to drive.")
    else:
        print("You are not eligible to drive, you need a license.")
else:
    print("You are not eligible to drive.")
```

You are eligible to drive.

Loops

1. for loop

```
In [5]: print("Waseem")
        print("Bilal")
        print("Qasim")
        print("Shahid")
        print("Tariq")
        print("Umer")
       Waseem
       Bilal
       Qasim
       Shahid
       Tariq
       Umer
In [6]: list = ["Waseem", "Bilal", "Qasim", "Shahid", "Tariq", "Umer"]
        for item in list:
             print(item)
       Waseem
       Bilal
       Qasim
       Shahid
       Tariq
       Umer
        While loop
In [7]: cups_of_chai = 0
        while cups_of_chai < 2:</pre>
             print("I want more chai.")
             cups_of_chai += 1
        print("I have had enough chai.")
       I want more chai.
       I want more chai.
       I have had enough chai.
        Break and Continue
In [8]: cups_of_chai = 0
        while cups_of_chai < 200000:</pre>
             cups_of_chai += 1
             print("I want more chai.")
             if cups_of_chai == 3:
                 print("Too much chai, stopping now.")
             print("I have had", cups_of_chai, "cups of chai.")
```

```
I have had 1 cups of chai.
        I want more chai.
        I have had 2 cups of chai.
        I want more chai.
        Too much chai, stopping now.
         continue
 In [9]: cups_of_chai = 0
         while cups_of_chai < 5:</pre>
             cups_of_chai += 1
             print("I want more chai.")
             if cups_of_chai == 3:
                  print("Too much chai, stopping now.")
                  continue
             print("I have had", cups_of_chai, "cups of chai.")
        I want more chai.
        I have had 1 cups of chai.
        I want more chai.
        I have had 2 cups of chai.
        I want more chai.
        Too much chai, stopping now.
        I want more chai.
        I have had 4 cups of chai.
        I want more chai.
        I have had 5 cups of chai.
         Range function in loops
In [10]: for cup in range(1, 10, 2):
             print("Chai is ready, Chai cup", cup, "Served.")
        Chai is ready, Chai cup 1 Served.
        Chai is ready, Chai cup 3 Served.
        Chai is ready, Chai cup 5 Served.
        Chai is ready, Chai cup 7 Served.
        Chai is ready, Chai cup 9 Served.
In [11]: count = 0
         while True:
             count += 1
             print("This loop will run forever.")
             if count == 2:
                  break
        This loop will run forever.
        This loop will run forever.
         Pass statement
In [12]: cups_of_chai = 0
```

I want more chai.

```
while cups_of_chai < 5:</pre>
     cups_of_chai += 1
     print("I want more chai.")
     if cups_of_chai == 3:
         print("Too much chai, stopping now.")
     print("I have had", cups_of_chai, "cups of chai.")
I want more chai.
I have had 1 cups of chai.
I want more chai.
I have had 2 cups of chai.
I want more chai.
Too much chai, stopping now.
I have had 3 cups of chai.
I want more chai.
I have had 4 cups of chai.
I want more chai.
I have had 5 cups of chai.
 try, except and finally
```

```
In [13]: print("Hello")
         print(1/0)
        Hello
        ZeroDivisionError
                                                  Traceback (most recent call last)
        Cell In[13], line 2
             1 print("Hello")
        ----> 2 print(1/0)
       ZeroDivisionError: division by zero
In [14]: # example of try, except and finally
             print("Hello")
             print(5/5)
         except ZeroDivisionError:
             print("There is an error, you are trying to divide by zero which is impossible.
             print("This will execute no matter what.")
        Hello
```

This will execute no matter what.