PROGRAM 3.4:

In [2]:
```
#AMIT CHAUHAN
#RA2311004010332

numbers =[10,15,20,25,30,35]
even_numbers = []
for num in numbers :
    if num%2==0:
        even_numbers.append(num)
print("Even Numbers:",even_numbers)
```

```
Even Numbers: [10, 20, 30]
```

PROGRAM 3.5:

In [1]:
```
#AMIT CHAUHAN
#RA2311004010332


#Fuel cost calculation
distances =[50,100,150,200,250]
mileage =15 #km/l
fuel_price=1.20 #$/1
```

In [2]:
```
#Calculate costs
costs= [(distance/mileage)*fuel_price for distance in distances]
```

In [3]:
```
#Display table
print("Distance(km) | Cost ($)")
for distance, cost in zip(distances,costs):
    print(f"{distance:<14} | {round(cost,2)}")
```

```
Distance(km) | Cost ($)
50             | 4.0
100            | 8.0
150            | 12.0
200            | 16.0
250            | 20.0
```

PROGRAM 3.6:

In [5]:
```
#AMIT CHAUHAN
#RA2311004010332

#Monthly electricity usage (in units)
usages= [80,150,220,300,120]
```

In [6]:
```
#Function to calculate the electricity bill
def calculate_bill(units):
    if units<= 100:
        return units*0.12
    elif units<=200:
        return (100*0.12) + ((units-100)*0.15)
    else:
        return (100*0.12)+(100*0.15)+ ((units-200)*0.20)
```

In [7]:
```
#Calculate bills
bills =[round(calculate_bill(units),2) for units in usages]
```

In [8]:
```
#display table
print("Usage (units)| Bills($)")
for usage ,bill in zip(usages,bills ):
    print(f"{usage:<14}| {bill}")
```

```
Usage (units)| Bills($)
80            | 9.6
150           | 19.5
220           | 31.0
300           | 47.0
120           | 15.0
```