LAB-12

Simplex Tabular:

```
def pri():
  temp=0
  z=[]
  for i in range(2,7):
     temp=(I[1][0]*I[1][i])+(I[2][0]*I[2][i])
     z.append(temp)
  print(z)
  print(I)
  sub=[]
  temp=0
  k=0
  for i in range(2,6):
     temp=I[0][i]-z[k]
     k=k+1
     sub.append(temp)
  print(sub)
  c=0
  for i in range(0,len(sub)):
     if(sub[i] <= 0):
        c=c+1
  if(len(sub)==c):
     print("x",I[1][1],I[1][6])
     print("x", I[2][1], I[2][6])
     print("z",z[4])
     return
  enter=2+sub.index(max(sub))
  theta1=I[1][6]/I[1][enter]
  theta2=I[2][6]/I[2][enter]
  if(theta1<theta2):
     leave=1
     asit=2
  else:
```

```
leave=2
     asit=1
  keyele=I[leave][enter]
  keycol=I[asit][enter]
  I[leave][1]=enter-1
  for i in range(2,7):
     | I[asit][i]=I[asit][i]-((keycol*I[leave][i])/keyele)
  for i in range(2,7):
     I[leave][i]=I[leave][i]/keyele
  print("cj-zj",sub)
  print(I)
  pri()
|=[]
for i in range(0,3):
  x=[int(x) for x in input().split(' ')]
  I.append(x)
pri()
```

Conclusion:

In this way we can solve linear program using Simplex Tabular method.