Flow Control Block Assignment

```
# Assignment On Flow Control Block
# ========================================================
# 1. Find out Entered Number is even or odd
'''
num = int(input('Enter Number='))
if num % 2 == 0:
   print('Entered number is even')
else:
   print('Entered number is odd')
'''
'''
Output:
Enter Number=12
Entered number is even

Enter Number=71
Entered number is odd
'''
# ========================================================
# 2. Calculate Discount price
'''
total_bill = float(input('Enter total bill amount='))
if total_bill >= 1000 :
   print("Discount Price to this bill is 10%")
   discount_percentage=10.0
   bill=total_bill-((discount_percentage*total_bill)/100)
   print("total bill amount=",bill)
else:
   print("Total bill amount=",total_bill)
'''
'''
Output:
Enter total bill amount=1500
Discount Price to this bill is 10%
total bill amount= 1350.0

Enter total bill amount=900
Total bill amount= 900.0
'''

# ========================================================
# 3. Calculate Area of Circle
'''
radius=float(input('Enter radius of circle='))
if radius >= 0:
   area_Of_Circle = 3.14 * (radius ** 2)
```

```
    print("Area of Circle=",area_Of_Circle)
else:
    print("Enter Valid Radius")
'''
'''
Output:
Enter radius of circle=-1
Enter Valid Radius

Enter radius of circle=4.3
Area of Circle= 58.0586
'''
# ========================================================
# 4. Water Purifier System
'''
pHvalue=float(input('Enter pH value of Water='))
if pHvalue >=6.5 and pHvalue <=8.5:
    print("Water is Pure")
else:
    print("Water is not healthy for Drink")
'''
'''
Output:
Enter pH value of Water=6.9
Water is Pure

Enter pH value of Water=9
Water is not healthy for Drink
'''
# ========================================================
# 5. Checking Eligibility of voting
'''
age=int(input('Enter Age:'))
if age>=18:
    print('Person is eligible for voting')
else:
     print('Person is not eligible for voting')
'''
'''
Output:
Enter Age:12
Person is not eligible for voting

Enter Age:21
Person is eligible for voting
'''

# ========================================================
# 6. Display Capitals of State
'''
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```
stateName=input("Enter State Name:")
if stateName == "Maharashtra":
    print("Mumbai")
elif stateName == "Andhra Pradesh":
    print("Amaravati")
elif stateName == "Assam":
    print("Dispur")
elif stateName == "Goa":
    print("Panaji")
elif stateName == "Gujarat":
    print("Gandhinagar")
else:
    print("Enter Valid State Name")
'''
'''
Output:
Enter State Name:Goa
Panaji
'''

#=========================================================
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# 7. Display Currency of Country
'''
countryName=input("Enter Country Name=")
if countryName == "Austria":
    print("Euro")
elif countryName== "Egypt":
    print("Egyptian pound")
elif countryName== "Indonesia":
    print("Indonesian rupiah")
elif countryName == "Japan":
    print("Japanese yen")
elif countryName == "Mexico":
    print("    Mexican peso")
elif countryName == "India":
    print("Indian rupee")
else:
    print("Enter valid Country Name")
'''
'''
Output:
Enter Country Name=India
Indian rupee
'''
#=========================================================
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# 8. Age Differentiation System
'''
age=int(input('Enter Age:'))
```

```
if age >= 60:
    print('Senior Citizen')
elif age>=40 and age<60:
    print('Elder Citizen')
elif age>=15 and age<40:
    print('Youngster')
elif age<15:
    print('Kid')
'''
'''
Output:
Enter Age:61
Senior Citizen
'''
#=============================================================
==
# 9. Student Grading System
'''
avg_marks=float(input('Enter average marks:'))
if avg_marks >=85:
    print('Grade=Outstanding')
elif avg_marks<85 and avg_marks>=70:
    print('Grade=Excellent')
elif avg_marks<70 and avg_marks>=65:
    print('Grade=Best')
elif avg_marks<65 and avg_marks>=50:
    print('Grade=Good')
elif avg_marks<50 and avg_marks>=45:
    print('Grade=Average')
else:
    print('Grade=Fail')
'''
'''
Output:
Enter average marks:83
Grade=Excellent
'''
#
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# 10. Find maximum between three numbers
'''
firstNo = int(input('Enter First Number:'))
secondNo = int(input('Enter Second Number:'))
thirdNo = int(input('Enter Third Number:'))
if firstNo > secondNo and firstNo > thirdNo:
    print('First Number is greater')
elif secondNo > thirdNo:
    print('Second Number is greater')
else:
```

```
    print('Third Number is greater')
'''
'''
Output:
Enter First Number:12
Enter Second Number:13
Enter Third Number:14
Third Number is greater
'''
#=============================================================
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# 11. Display Greater Number
'''
firstNo = int(input('Enter First Number:'))
secondNo = int(input('Enter Second Number:'))
thirdNo = int(input('Enter Third Number:'))
if firstNo > secondNo:
    if firstNo > thirdNo:
        print("First Number is Greater")
    else:
        print("Third Number is Greater")
else:
    if secondNo > thirdNo:
        print("Second Number is Greater")
    else:
        print("Third Number is Greater")
'''
'''
Output:
Enter First Number:45
Enter Second Number:89
Enter Third Number:456
Third Number is Greater
'''
#=============================================================
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# 12. Weather checking System
'''
str=input("is raining?=")
if str== "Yes":
    str1=input("is lighitning?")
    if str1=="Yes":
        print("Take Care Stay Home")
    else:
        print("Enjoy Rain....")
else:
    print("Go Out Enjoy.....")
'''
'''
Output:
```

```
is raining?=Yes
is lighitning?Yes
Take Care Stay Home
'''
#=================================================================
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# 13. Library Management System
'''
r=int(input("Welcome to Library\n1.New User\n2.Registered User\nEnter Your Choice="))
if r==1:
   print("Fill Registration Form")
elif r==2:
   choice=int(input("1.Issue Book\n2.Return Book\nEnter Your Choice="))
   if choice==1:
      bookCategory=int(input("Which Category u want?\n1.Historical\n2.Comic\nEnter Your
Choice="))
      if bookCategory==1:
         print("Welcome to Historical Book Section")
      elif bookCategory==2:
         print("Welcome to Comic Book Section")
      else:
         print("please Enter Correct Choice")
   elif choice==2:
      regNum=145;
      n=int(input("Enter Your Registration Number="))
      if n==regNum:
         print("Welcome to Library\nBook Details\nTitle=Gone with the
Wind\nAuthor=Margaret Mitchell")
         ret=input("Do you want to return=")
         if ret=="Yes":
            print("Book Return Successful")
         else:
            print("Renew the Book")
      else:
         print("Please Enter Correct Registration Number")
   else:
      print("Please Enter Correct choice")
else:
   print("Please Enter Correct choice")
'''
'''
Output:
Welcome to Library
1.New User
2.Registered User
Enter Your Choice=2
1.Issue Book
2.Return Book
Enter Your Choice=2
Enter Your Registration Number=145
```

```
Welcome to Library
Book Details
Title=Gone with the Wind
Author=Margaret Mitchell
Do you want to return=Yes
Book Return Successful
'''
#=========================================================
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#14. Check Leap Year
'''
leapYear=int(input('Enter Year:'))
if leapYear % 4==0:
    if leapYear % 100==0:
        if leapYear % 400==0:
            print('Year is Leap Year')
        else:
            print('Year is not Leap Year')
    else:
        print('Year is Leap Year')
else:
    print('Year is not Leap Year')
'''
'''
Output:
Enter Year:2022
Year is not Leap Year
'''
#=========================================================
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#15. Blood Donation Eligibility
'''
age=int(input("Enter Your Age="))
if age>=18 and age<=65:
    weight=float(input("Enter Your Weight="))
    if weight>=50:
        print("You are Eligible For Blood donation")
    else:
        print("Your Weight Must be at least 50Kg")
else:
    print("You are not Eligible")

'''
'''


Output:
Enter Your Age=54
Enter Your Weight=54
You are Eligible For Blood donation
'''
```

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#=================================================

# 16. Check number Equality
'''
num1 = int(input('Enter Num1:'))
num2 = int(input('Enter Num2:'))
num3 = int(input('Enter Num3:'))
if num1 == num2:
    if num1 == num3:
        print("All numbers are Equal")
    else:
        print("Numbers not equal")
else:
    print("Numbers not equal")
'''
'''
Output:
Enter Num1:12
Enter Num2:12
Enter Num3:12
All numbers are Equal

Enter Num1:12
Enter Num2:12
Enter Num3:19
Numbers not equal
'''

#=============================================
#18. Ticket Booking System
'''
NoOfTickets=15
print("\n\nTicket Booking System\n")
choice=int(input("1.Ticket Reservation\n2. Check Status\nEnter your Choice="))
if choice==1:
    people = int(input("\nEnter no. of Tickets you want : "))
    if people<=NoOfTickets:
        print("Tickets Available\nBook your tickets")
    else:
        print("Sorry Tickets are not available try for next slot")
elif choice==2:
    print("Your Status is Confirmed!")
else:
    print("Enter correct Choice")
'''
'''
Output:
Ticket Booking System
```

```
1.Ticket Reservation
2. Check Status
Enter your Choice=1

Enter no. of Tickets you want : 4
Tickets Available
Book your tickets

Ticket Booking System

1.Ticket Reservation
2. Check Status
Enter your Choice=2
Your Status is Confirmed!

'''

#==========================================
#19. String checking System
'''
str=input("Enter String:")
str=str.upper()
a=int(str.count('A'))
e=int(str.count('E'))
i=int(str.count('I'))
o=int(str.count('O'))
u=int(str.count('U'))

if a>=1 or e>=1 or i>=1 or o>=1 or u>=1:
   print("Vowels are present in string")
else:
   print("Vowels are not present")
'''
'''
Output:
Enter String:crypt
Vowels are not present
'''
#
==========================================================
# 20. Find maximum between three numbers
'''
firstNo = int(input('Enter First Number:'))
secondNo = int(input('Enter Second Number:'))
thirdNo = int(input('Enter Third Number:'))
if firstNo > secondNo and firstNo > thirdNo:
   print('First Number is greater')
elif secondNo > thirdNo:
   print('Second Number is greater')
else:
```

```
    print('Third Number is greater')
'''
'''
Output:
Enter First Number:15
Enter Second Number:14
Enter Third Number:18
Third Number is greater

'''
```