***ASSIGNMENT NO: 1***

**1.Find out given no is Amrstrong Or Not**

Step 1: Start

Step 2: Accept number i.e Num

Step 3: initilize sum=0

Step 4: Assign No value to Temp i.e temp=num

Step 5: rem=Num%10

sum=sum+rem\*rem\*rem

Num=Num/10

Step 6: while(Num>0) then goto step5

otherwise go to Step7

Step 7 : if(sum==temp)then display Number is amstrong number otherwise go to 9

Step 8: stop

Step 9: Display display Number is not amstrong number.

Step 10: stop

**2..Find out all the Amrstrong number falling in the range of 100-999**

Step1: Start

Step 2: Accept the number from 100

Step 3: set i=100 to

i<999

num=i

Step 4: temp=num

Step 5: while(num>0)

initializ sum=0

rem=num%10

num=num/10

sum=sum+rem\*rem\*rem

Step 6: if(sum==temp)then display Number is amstrong number

otherwise Display display Number is not amstrong number

Step7:i++

Step8:stop

**3.Find out simple as well as compund interest of supplied values**

Step 1: start

Step 2: Accept the Suplied values(Accept the Principle,rate and time)

Step 3: calculate SI=(principle\*rate\*time)/100

Step 40: print SI

Step 5: calculate CI=principle\*math.pow(1+r\*0.01,t)-p

Step 6: print CI

**4.supply marks of three subjects and declare the result,result declaration in based below condition:**

condition1:all subjects marks is greater than 60 is passed

condition2:any two subject marked are greater than 60 promoted

Condition 3: any one subject marked are greater than 60 or less subject less than 60 is failed

ANS:

Step1: Start

Step2: Input subjects a,b and c

 Step3: if( a&&b&&c >60)

                  Then print Passed

                Else if(a&&b||c >60)

                   Then print Promoted

                Else

                   Then print Failed

Step4: Stop

**Q5.Calculate the income tax**

Step 1: Start

Step 2: enter input CTC

Step 3: if(CTC<=180000 )

              Then print taxed amount:0

Step 4: if(CTC>181000&& CTC <300001)

            Then print taxed amount: CTC\*0.1

Step 5: if(CTC>300000&&CTC<500001)

      Then print taxed amount: CTC\*0.2

Step 6: if (CTC >500000&&CTC<1000001)

        Then print taxed amount:CTC\*0.3

Step 7: Stop

**6.Consider UI based application where you are asking a user to enter his login name and password,after entering the valid user-id and password it will be print the message “welcome”along with username.as per the validation is concered,the program should keep a track login attempts.after three attempts message should flashed saying contact admin and the program should be terminate**

Step1:start

Step 2 : Input username & password.

Step 3 : Retry =0;

Step 4 : check username & password

Step 5 : If username = existing username & password = existing password

Step 6 : Print “welcome & username”

Step 7 : else

                   Retry ++

Step 8 : Follow the step 2 again.

Step 9 : If Retry =3;

               Print “ Contact Admin”.

Step 10 : Stop.

**7.there is an array is size of 15 which may or may not be sorted you should write a program to accept no and search it if it contain in array or not**

Step 1: Accept Array

Step 2 :Display Array

Step 3: Enter the element you want to search in array i.e key

Step 4: set boolean flag=false(if flag is flag in our array element is not present)

Step 5: use for Loop for each element

if arr[index]==key

then set flag==true

end for loop

Step 6: if flag==true print that element

Step 7: else print element not found

**Q8: Apply Sorting using Bubble Sort**

Step 1: Begin

Step 2: Input a[15]

Step 3: Set i=13

Step 4: Repeat Step 4to 9 while (i >= 0)

Step 5: Set j=0

Step 6: Repeat Step 7 and 8 white (j<= i)

Step 7: if a[i]> a[j+1] then

              Set temp = a[j]

              A[j] =a[j+1]

             A[j+1] = temp

Step 8: j = j+1

Step 9: i= i-1

Step 10: print a[15]

Step 11: exit

**Q9.Accept the marks of three students for subject say A,B,C find the total scored and the average and the average in all subjects,also findbthe total and average scored by student in each respective subject.**

ANS:

Step1:     Start

Step 2: Accept the three subject marks for each student

Step 3:    Set sub= 3

Step 4:    Sum of subject=  A+B+C

Step 5:    Avrage = Sum of subject / sub

Step 6:.    Set std = 3

Step 7:.   Sum of Sub A=A+A+A

Step 8:    Avrage =Sum of Sub A/std

Step 9:    Sum of Sub B=B+B+B

Step 10:  Avrage =Sum of Sub B/std

Step 11:  Sum of Sub C=C+C+C2

Step 12:  Avrage =Sum of Sub C/std

Step 13:   End