# LAB 12 (CONDITIONAL STRUCTURE)

By:

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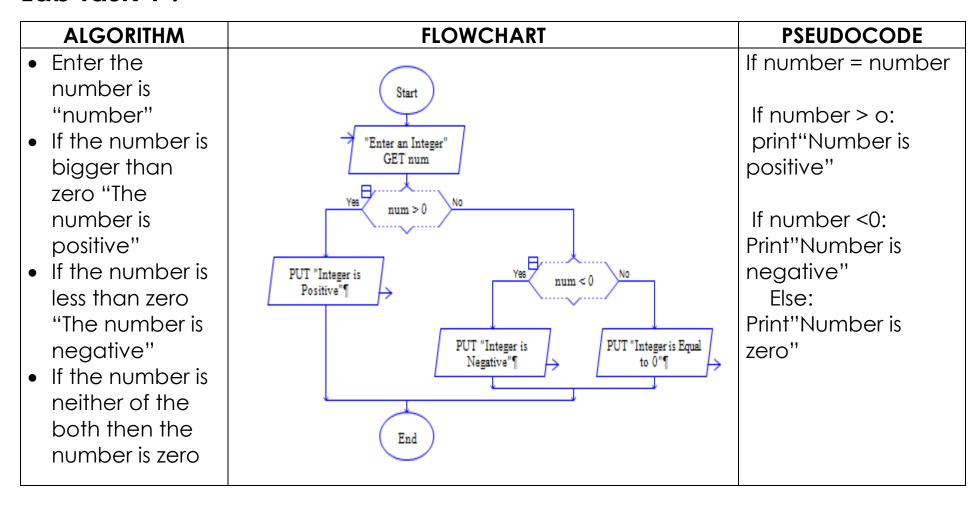
**Submitted to: SIR KHURRUM IQBAL** 

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# Lab task 1:



# Lab task 2:

ALGORITHM	FLOWCHART	PSEUDOCODE
<ul> <li>Enter the obtained marks of the subjects Physics, Chemistry, Math, Computer and bio</li> <li>Then make the percentage by dividing by total number and multiplying by hundred</li> <li>then make if else statement to describe the grade obtained</li> <li>by the student in the exams</li> </ul>	Sout  Tame change  Tame change	Marks=Input= Obtained Marks of subjects Percentage=marks*100/total marks If percentage >=90:     print"The grade is A" If percentage >=80:     Print"The grade is B" If percentage >=70:     Print"The grade is C" If percentage >=60:     Print"The grade is D" If percentage >=40:     Print"The grade is E" Else:     Print"The grade is F"

## Lab task 3:

#### **ALGORITHM FLOWCHART PSEUDOCODE** • Fnter the sides of Side1=side1 of the triangle the triangle If The side 1 is equal Side2=side2 of the Enter Length of Side 1 of to side 2, side 2 is the Triangle" triangle equal to side 3 and Side3=side3 of the Enter Length of Side 2 of side 1 is equal to the Triangle" triangle GET s2 side 3 then "it is If side1=side2=side3: Enter Length of Side 3 of equilateral triangle" the Triangle" GET s3 print"Triangle is • If The side 1 is equal equilateral" to side 2 or side 2 is s1=s2 && s2=s3 && Flif side1=side2 or equal to side 3 or side2=side3 or side 1 is equal to PUT "Triangle is s1=s2||s2=s3 side3=side1: Equilateral" side 3 then "it is a print"Triangle is isosceles triangle" isosceles" Else The triangle is PUT "Triangle is Isosceles" PUT "Triangle is Scalene"¶ Else: scalene

End

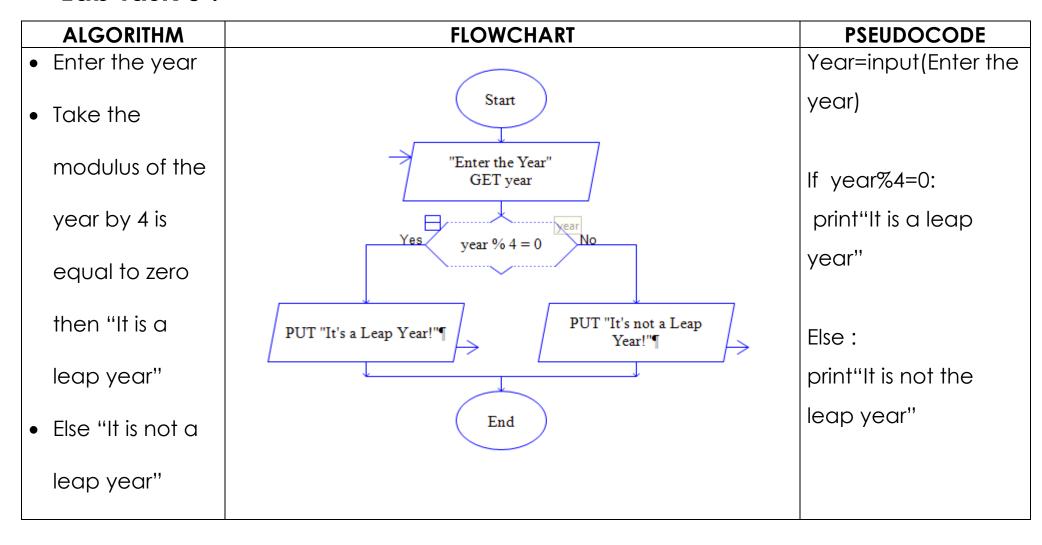
print"Triangle is

scalene"

## Lab task 4:

#### **ALGORITHM FLOWCHART PSEUDOCODE** • Fmail= Email=" email" Password="password" abc@gamil.com Email1=input=Email Password=abcd email ← "abc@gmail.com address Input the email address Password1=input=Password and the password. pwd ← "abc" If email=email1 and • If The email and input password=password1: "Enter your Email email is equal and GET emailInp print"You have logged in" password is also equal Elif email=email1 and Enter your Password to the input password GET pwd password!=password1: then "you have logged print"The password is email = emailInp && in" incorrect" If both email are Elif email !=email1 and PUT "User is logged in" correct but password password=password: are incorrect "The print"The email is incorrect" PUT "The Entered Password is incorrect" password is incorrect" Else: • If both the passwords print"Email and password PUT "The Entered Email is PUT "Incorrect Email and both are incorrect" are correct but email is Password"¶ incorrect "The email is incorrect" End Else both the password and email is incorrect

# Lab task 5:



# **Python codes:**

> Lab task 1:

```
1  num=eval(input("Enter the number:\n"))
2  if num > 0:
3    print("The input number is even")
4  elif num < 0:
5    print("The input number is odd")
6  else:
7    print("The input number is zero")</pre>
```

#### > Lab task 2:

```
phy=eval(input("Enter the obtained marks of phy:\n"))
     chem=eval(input("Enter the obtained marks of chem:\n"))
     math=eval(input("Enter the obtained marks of math:\n"))
     bio=eval(input("Enter the obtained marks of bio:\n"))
     computer=eval(input("Enter the obtained marks of computer:\n"))
     total marks=500
     total=phy+chem+math+bio+computer
     per=(total*100)/total marks
     if per>=90:
10
         print("You have sussessfully obtained A grade")
11
     elif per>=80:
12
         print("You have sussessfully obtained B grade")
     elif per>=70:
13
         print("You have sussessfully obtained C grade")
14
15
     elif per>=60:
16
         print("You have sussessfully obtained D grade")
     elif per>=40:
17
         print("You have sussessfully obtained E grade")
18
     else:
19
         print("You have sussessfully obtained F grade")
20
```

### > Lab task 3:

```
side1=eval(input("Enter the first side of the triangle:\n"))
side2=eval(input("Enter the second side of the triangle:\n"))
side3=eval(input("Enter the third side of the triangle:\n"))
if side1 == side2 == side3:
print("The triangle is eqilateral triangle")
elif side1 == side2 or side2 == side3 or side3 == side1:
print("The triangle is isosceles triangle")
else:
print("The triangle is scalene triangle")
```

### > Lab task 4:

```
email="abc@gmail.com"
     password="abcd"
2
     email1=input("Enter the email address:\n")
3
4
     password1=input("Enter the password:\n")
5
     if email == email1 and password == password1:
6
         print("You are logged in")
     elif email == email1 and password != password1:
8
         print("The password is incorrect")
9
     elif email != email1 and password == password1:
         print("The email s incorrect")
10
11
     else:
12
         print("Email and password both are incorrect")
13
```

### > Lab task 5:

```
1  year=int(input("Enter the year:\n"))
2  if year%4 == 0:
3    print("It is a leap year")
4  else:
5    print("it is not a leap year")
```