LAB 12 (CONDITIONAL STRUCTURE)

By:

UMER FAROOQ (FA22-BCT-036)



Submitted to: SIR KHURRUM IQBAL

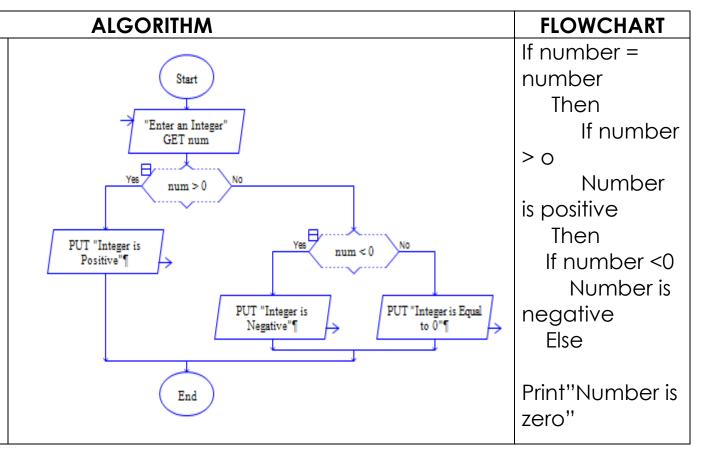
Subject: INTRODUCTION TO COMMUNICATION TECHNOLOGY

Date: 13/12/2022

DEPARTMENT OF COMPUTER SCIENCE
COMSATS UNIVERSITY
ISLAMABAD

Lab task 1:

- Enter the number is "number"
- If the number is bigger than zero "The number is positive"
- If the number is less than zero "The number is negative"
- If the number is neither of the both then the number is zero



Lab task 2:

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

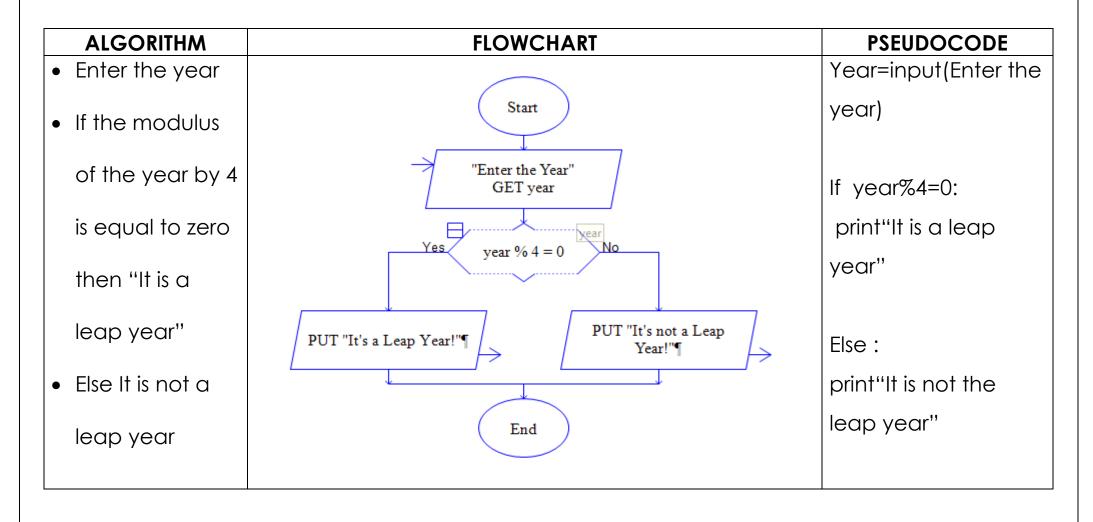
Lab task 3:

FLOWCHART ALGORITHM PSEUDOCODE • Enter the sides of Side1=side1 of the the triangle triangle • If The side 1 is equal Side2=side2 of the Enter Length of Side 1 of the Triangle" to side 2, side 2 is triangle GET sī equal to side 3 and Side3=side3 of the Enter Length of Side 2 of side 1 is equal to the Triangle" triangle side 3 then"it is If side1=side2=side3: Enter Length of Side 3 of equilateral triangle" the Triangle" print"Triangle is • If The side 1 is equal equilateral" s1=s2 && s2=s3 && to side 2 or side 2 is 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"¶ scalene Flse print"Triangle is scalene"

Lab task 4:

ALGORITHM FLOWCHART PSEUDOCODE • Fmail= Email=" email" Password="password" abc@gamil.com Email1=input= Password=abcd email ← "abc@gmail.com Email address Input the email address Password1=input= and the password. pwd ← "abc" **Password** If The email and input If email=email1 and Enter your Email email is equal and GET emailInp password=password1: password is also equal print"You have logged Enter your Password to the input password GET pwd "you have logged in" Elif email=email1 and email = emailInp && • If both email are password!=password1: correct but password print"The password is PUT "User is logged in"¶ are incorrect "The incorrect" password is incorrect" Elif email!=email1 and PUT "The Entered Password is incorrect" If both the passwords password=password: are correct but email is print"The email is PUT "Incorrect Email and PUT "The Entered Email is incorrect" incorrect "The email is incorrect" Password"¶ Else: incorrect" print"Email and password Else both the password End both are incorrect" 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"))
 4
     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:
         print("You have sussessfully obtained A grade")
10
11
     elif per>=80:
12
         print("You have sussessfully obtained B grade")
13
     elif per>=70:
14
         print("You have sussessfully obtained C grade")
15
     elif per>=60:
         print("You have sussessfully obtained D grade")
16
17
     elif per>=40:
18
         print("You have sussessfully obtained E grade")
19
     else:
         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"
     email1=input("Enter the email address:\n")
     password1=input("Enter the password:\n")
     if email == email1 and password == password1:
         print("You are logged in")
     elif email == email1 and password != password1:
         print("The password is incorrect")
8
     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")
```