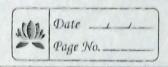
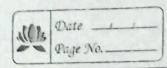
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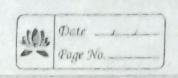
	Name: Robon Kumar Sain:
	Roll No: RM2041A10
	Registration No: 12011878
	Even Set
Q1.	An insurance company wants to design the insurance policy for a driver where
	the company insures its drivers in the following cores:
	If the driver is married.
-	
	If the driver is unmarried, male and above so years of age.
AM	If the driver is unmarried, female and above 25 years of age.
JUZ_	a = int (input ('Enter the age of the driver in years = ')) b = input ('The driver is "married" or "unmarried" - ')
	D - Input ( the diriver is "married" or unmarried" - )
	c = input C' The driver is "male" or "female" - ')
	if (b == 'unmarried' and c == 'male'):
2	if (a>30):
	print ("Insurance will be provided")
	dif (a = 30):
	print ("Insurance will not be provided")
	die:
	print ("Invacance will not be provided")  elif (b == 'unmarried' and c == 'pernale'):
	elit (b == 'enmarried' and c== 'permale'):
	\$ (a>25):
	print ("Invexance will be provided")
	elif (a == 25):
	print (" Trunance will not be provided")
	else:
	print ("Inwrance will not be provided")
	else:
	mist (" Townsoce will be osewided")
	print ("Insurance will be provided")  print ("END OF PROGRAM")
	Dive O Die Of Tradition





Q2.	Computer Science faculty of an institute who is tracking to mechanical and civil engineering students present the challenge to design an outamated solution which colculate and print the following sum of series 1+8+5+7+n.
Am	which colculate and print the following sum of series 1+8+5+7+n.  d = int (input ('Enter the value of n='))
	Aum = 0
	tox x in range (1, d+1, 2):
	print ("Sum of socies 1+3+5+7++n=", som)
	point ("END OF PROGRAM")
	perior play or thanking
Q3·	Normally in all engineering colleges, there will be a long vacation after every
	even semester and a short vacation after every odd semester. Given the current
	semester in which a student is in, create a small automated module torsed
	on below mentioned constraints that determine whether he will have a long
	vacation or short vacation at the end of this somester.
	Constraints
	Value should not be less than 0 and more than 8
	Input Format: Input consists of 1 integer which corresponds to the correct
	semester a the student. Output: Long vacation
Ans	e= int Cincit ('The current semester of the student is=')
	I = (e = 1)  or  e = 3  or  e = 5  or  e = 7)
	elif Ce <0 or e>8):
	elif Ce 40 or e>8):
	print ("The remember number must be from 0 to 8")
	else:
	print (" Long Vacation")  print (" END OF PROGRAM")
	print ("END OF PROGRAM")





Q4.

There are 10 students in the class. Students tool their midterm sewelt in INT102 and teacher wants to find the average marks of the class in INT102 and display it. Help the teacher to design an automated solution that accepts marks of 10 students as input and prints the average of marks as output.

Input: Enter the marks of 10 students in integer using for loop or while loop.

Ans

output: Average marks of the class rames = []
grades = []

total = 0

for i in xarge (0, 10):

name = input ("Enter the name of the students:")

par i in range (0,10):

print ("Name of the student:", names [i])
grade = eval Cinput ("Enter the grades: ")
grades. append (grade)

for x in range (0,10):

total = total + grades [x]

1 = total /10

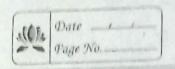
print ("Average marks of the chas=", f)
print ("END OF PROGRAM")

Q6.

These was a class of 60 students. It was the fixet day of their debts class. The students have to give their name to their teacher. They have given it in the format: FIRST NAME and LAST NAME, both separated by a space. When the first day ends, the teacher had to upload the names into the school's website but, it was of the format:

LAST NAME and FIRST NAME both separated by a space. Design an

Ans



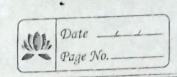
automated solution using modular approach that suaps the two names. INPUT: Aditya Roy OUTPUT: Roy Aditya first\_names = [] last\_rames = [] full-rames = [] revexue \_ mmes = [. for i in range (0,60): first\_rame = input ("Enter first name=") first\_rames. Oppend Christ\_rame)

lost\_rame = input ('Entex last name-') last - names. append (last-name) for x in range Co, 60): full - names, append (fast - names [x] + 1 + last - names [x]) print ("List of FIRST NAME and LAST NAME of students - ", full\_names) for x in songe (0,60): severse - names. append Clast-rames [x] + 1 + first-names [x]) point ("List of LAST NAME and FIRST NAME of students-", reverse\_names) print ("END OF PROGRAM")

Q6. Check whether the through is equilateral, scalene, or workeles. Before writing the program, we should know the properties of workeles, equilatoral, and scalene triangles. I workeles triangle: In geometry, an inoxeles triangle is a triangle that has two sides of equal length.

Equilateral triangle: In geometry, an equilateral triangle is a triangle in which all three sides are equal. Scalene triangle: A scalene triangle is a triangle that has three unequal sides. Write the program in python that check whether the triangle is equilateral, scalene, or isosceles by taking number of sides as input values:





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g = int Cirput ('The number of equal sides = '))

if (g == 3):

print ("The triangle is equilateral")

elif (g == 2):

print ("The triangle is isexeles")

elixe:

print ("The triangle is scalene")

print ("The triangle is scalene")