SET-A

First Semester MCA (2020 SCHEME)
Practical Examination - 2021

Reg No: ICE20MCA-2016
Date : 2-07-2021
Time : 9.30 - 12.30

20MCA131 - Programming Lab

[SET A]

Program - I

Generate a list of four digit numbers in a given range with all their digits even and the number is perfect square.

Algorithm

Step 1 : start
Step 2 : Set the range.
Step 3 : if (num * num == i)
Step 4 : r = n % 10
n = n // 10
Step 5 : if r % 2 != 0 :
Step 6 : print the variables.

Program code:

```
Import math
for i in range(1000,10000):
    num = int(math.sqrt(i))
    if(num * num == i):
        n=i  n=i
            while n!=0:
                r = n%10
                n = n//10
                if r%2!=0: break
            else: print(i)
```

Output.

4624

6084

6400

8464

range(1000, 10000)

range(2, 24)

~~range~~ 4, 16

Program 11

Write a python program to read each row from a given csv file and print a list of strings.

Algorithm:

Step 1: Start
Step 2: Create an excel sheet with strings
Step 3: read the csv file with csv reader
Step 4: read each row in csv file
Step 5: print rows
Step 6: Stop.

program code:

```
csv import csv
with open('excel.csv', "r") as file1:
    reader1 = csv.reader(file1)
    for row in reader1:
        print(row)
```

output:

```
['empno', 'empname', 'dept', 'dob', 'salary']
['1', 'anu', 'sales', '1/3/1999', '75000']
.....
.....
```