Lab 2 assignment

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MCA

Python Programming Lab

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1. Write python programs to perform fallowing tasks:

a. Find 2 nd largest number among five numbers using if-else

Code:

```
list1 = [10, 20, 4, 45, 99]
mx=max(list1[0],list1[1])
secondmax=min(list1[0],list1[1])
n =len(list1)
for i in range(2,n):
    if list1[i]>mx:
        secondmax=mx
        mx=list1[i]
    elif list1[i]>secondmax and \
        mx != list1[i]:
        secondmax=list1[i]
    print("Second highest number is : ",\
    str(secondmax))
```

Output:

```
In [78]: list1 = [10, 20, 4, 45, 99]

         mx=max(list1[0],list1[1])
         secondmax=min(list1[0],list1[1])
         n =len(list1)
         for i in range(2,n):
             if list1[i]>mx:
                 secondmax=mx
                 mx=list1[i]
             elif list1[i]>secondmax and \
                 mx != list1[i]:
                 secondmax=list1[i]

         print("Second highest number is : ",\
             str(secondmax))

         Second highest number is :  45
```

b. Find 2 nd smallest number among five numbers

Code:

lst = []

num = int(input('How many numbers: '))

for n in range(num):

   numbers = int(input('Enter number '))

   lst.append(numbers)

print("\nMinimum element in the list is :", min(lst))

Output:

```
In [48]: lst = []
         num = int(input('How many numbers: '))
         for n in range(num):
             numbers = int(input('Enter number '))
             lst.append(numbers)
         print("\nMinimum element in the list is :", min(lst))

         How many numbers: 5
         Enter number 4
         Enter number 3
         Enter number 4
         Enter number 6
         Enter number 8

         Minimum element in the list is : 3
```

2. Write python programs to perform fallowing tasks:

a. Find given number is prime or not

num=int(input("Enter number: "))

if num > 1:

   for i in range(2, num):

     if (num % i) == 0:

       print(num, "is not a prime number")

       break

```
    else:

        print(num, "is a prime number")



else:

    print(num, "is not a prime number")
```

Output:

```
In [31]: num=int(input("Enter number: "))
         if num > 1:
             for i in range(2, num):
                 if (num % i) == 0:
                     print(num, "is not a prime number")
                     break
                 else:
                     print(num, "is a prime number")

         else:
             print(num, "is not a prime number")

         Enter number: 5
         5 is a prime number
```

b. Print alternate even number from 1 to n

Code:

```
num = int(input(" Please Enter any Maximum Number : "))

for number in range(1, num + 1):

    if(number % 4 == 0):

        print("{0}".format(number))
```

```
In [77]: num = int(input(" Please Enter any Maximum Number : "))

         for number in range(1, num + 1):
             if(number % 4 == 0):
                 print("{0}".format(number))

          Please Enter any Maximum Number : 44
         4
         8
         12
         16
         20
         24
         28
         32
         36
         40
         44
```