sc_Assign1_Ravi_72

January 31, 2022

1 Soft Computing Lab Assignment 1:

1.1 Faculty-in-charge: Dr. D.K. Shaw, Dr. Ashok Kumar Mehta

```
[ ]:
```

1.1.1 Name - Ravi Kumar

Reg- 2020PGCACA72

```
[ ]:
```

1. Find the greatest number among three user given number.

```
[10]: a= int(input("Enter 1st no."))
      b= int(input("Enter 2nd no."))
      c= int(input("Enter 3rd no."))
      if a>b and a>c:
          print(a," is gratest no.")
      elif b>a and b>c :
          print(b," is gratest no.")
      else:
          print(c," is gratest no.")
```

```
Enter 1st no.2
Enter 2nd no.7
Enter 3rd no.3
7  is gratest no.
```

```
[ ]:
```

2. Enter the number from the user and depending on whether the number is even or odd, print out an appropriate message to the user.

```
[11]: num = int(input("enter any no. to check even or odd."))
      if num%2==0 :
          print(num, " is even number.")
      else :
          print(num, " is odd number.")
```

```
enter any no. to check even or odd.76
76   is even number.
```

[ ]:

3. check even and odd numbers from 1 to 20

```python
[12]: for i in range(1,21):
          if i%2==0:
              print(i, " - Even.")
          else:
              print(i, " - Odd.")
```

```
1  - Odd.
2  - Even.
3  - Odd.
4  - Even.
5  - Odd.
6  - Even.
7  - Odd.
8  - Even.
9  - Odd.
10  - Even.
11  - Odd.
12  - Even.
13  - Odd.
14  - Even.
15  - Odd.
16  - Even.
17  - Odd.
18  - Even.
19  - Odd.
20  - Even.
```

[ ]:

4. Sum of digits of a user given number.

```python
[13]: num = input("Enter any no = ")
      sum=0
      for i in (num):
          sum += int(i)
      print("Sum of digits is ",sum)
```

```
Enter any no = 137645
Sum of digits is  26
```

[ ]:

5. Reverse of a user given number using while loop.

```
[14]: n = int(input("Enter any no. to reverse   : "))
      rev=0
      while(n>0):
          rev = rev*10+(n%10)
          n //=10
      print("Reverse no. is : ",rev)
```

```
Enter any no. to reverse   : 12353
Reverse no. is :   35321
```

6. Check a number is pelindrom or not.

```
[15]: num=input("Enter any no. to check palindrome or not!. ")
      sz=len(num)-1
      i=0
      while(i<=sz):
          if num[i]!=num[sz]:
              print("Not a palindrome no !")
              sz=0
              break
          i+=1
          sz-=1
      if sz!=0:
          print(num,"A palindrome no. !")
```

```
Enter any no. to check palindrome or not!. 12321
12321 A palindrome no. !
```

7. print the prime numbers between 1 to 20.

```
[16]:    for i in range(1, 21):
             if i == 0 or i == 1:
                 continue
             else:
                 for j in range(2, int(i/2)+1):
                     if i % j == 0:
                         break
                 else:
                     print(i)
```

```
2
3
5
7
11
```

```
13
17
19
```

[ ]:

8. Write a python program to display multiplication table

```python
[17]:  n= int(input("Enter any to print multiplication Table. "))
       for i in range(1,11):
           print(n," * ",i," = ",n*i)
```

```
Enter any to print multiplication Table. 7
7  *  1   =   7
7  *  2   =   14
7  *  3   =   21
7  *  4   =   28
7  *  5   =   35
7  *  6   =   42
7  *  7   =   49
7  *  8   =   56
7  *  9   =   63
7  *  10  =   70
```

[ ]:

9. Count the total number of digits in a number

```python
[18]: n = int(input("Enter any digit : "))
      c=0
      while(n>0):
          n //=10
          c+=1
      print(c)
```

```
Enter any digit : 1234
4
```

[ ]:

10.Write a Python program to sum all the items in a list.

```python
[19]: li = [1,2,4,5,6,77,8,9]
      sum = 0
      for i in li:
          sum += int(i)
      print(sum)
```

```
112
```

[ ]:

```python
[ ]:
```