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SAVEETHA

**INSTITUTE OF MEDICAL AND TECHNICAL SCIENCES**

**March ‘18**

**B**

Course : B.E.

Subject Code : CS01812

Subject Name : Python Programming – Networking

Duration : 3 Hrs Max Marks : 100

**Answer Key**

**Answer all the questions**

**PART A (5 x 4 = 20)**

1. Write a python program to find the sum of the following series. x+x2+x3+x4…+ xn (4)

a=int(input("enter x value:"))

n=int(input("enter n value:"))

f=1

sum=0

for i in range(1,n-1):

f=f\*i

sum=sum+(a\*\*i)

print("sum of the series is:",sum)

1. Write a python program to find the sum of all diagonal elements in a given matrix. (4)

a=[[1,2,3],[4,3,2],[7,5,3]]

c=0

for i in range(3):

for j in range(3):

if i==j:

c=c+a[i][j]

print("the sum of diagonal elements is",c)

1. Write a python program to find the greatest number in a list. (4)

list=[]

n=int(input("enter the size:"))

for i in range(n):

a=int(input("enter the element:"))

list.append(a)

print(list)

max=list[0]

f=0

for i in range(n):

if max<list[i]:

max=list[i]

print("max in list is:",max)

1. Write a python program to count how many times the given character repeated in a file. (4)

file=open("praneeth.txt","w")

file.write("saveetha")

file.close();

file=open("praneeth.txt","r")

str=file.readline()

print(str)

length=len(str)

f=0

for i in range(length):

f=0

for j in range(length):

b=str[i]

if str[i]==str[j]:

f=f+1

print("the charecter",b,"is",f,"times present")

file.close();

1. Write a python program to accept and display username and password from the text box. (4)

from tkinter import \*

def showfields():

print("username:%s"%(e1.get()))

print("password:%s"%(e2.get()))

p1=form1(self)

p1.show()

master=Tk()

Label(master,text="username").grid(row=0)

Label(master,text="password").grid(row=1)

e1=Entry(master)

e2=Entry(master)

e1.grid(row=0,column=1)

e2.grid(row=1,column=1)

Button(master, text="login", command=showfields).grid(row=3, column=1, sticky=W, pady=4)

mainloop()

**PART B (5 x 6 = 30)**

1. Write a python program to display integer into words. For example 514 should be displayed FIVE ONE FOUR (6)

rev=0

a=777

while(a!=0):

rem=a%10

rev=(rev\*10)+rem

a=a/10

while (rev!=0):

rem=rev%10

if(rem==0):

print("zero")

elif(rem==1):

print("one")

elif(rem==2):

print("two")

elif(rem==3):

print("three")

elif(rem==4):

print("four")

elif(rem==5):

print("five")

elif(rem==6):

print("six")

elif(rem==7):

print("seven")

elif(rem==8):

print("eight")

elif(rem==9):

print("nine")

rev=rev/10

1. Write a python program to shift the first digit into last. For example 1234 is converted into 2341. (6)

a=int(input("enter number:"))

b=a;

left=a//10

right=1

c=0

while(b!=0):

c=c+1

b=b//10

for i in range(c-2):

right=right\*10

left=n/right

print(left+right)

1. Write a python program to display first two lowest numbers in a list.

For example the list contains 10, 20,5,13, 21. The output should be 5, 10. (6)

list=[]

n=int(input("enter the size:"))

for i in range(n):

a=int(input("enter the element:"))

list.append(a)

print(list)

for i in range(n):

for j in range(n):

if list[i]<list[j]:

t=list[i]

list[i]=list[j]

list[j]=t

print("ascending order is",list)

print("Lowest 1.”,list[0])

print("Lowest 2.”,list[1])

1. Write a python program to create 5 students marks using dictionary and find the pass/fail in each.

m1=int(input("enter 1st number"))

m2=int(input("enter 2nd number"))

m3=int(input("enter 3rd number"))

m4=int(input("enter 4th number"))

m5=int(input("enter 5th number"))

num\_students = int(raw\_input("Please enter number of students:"))

studentdic = {}

data = [ 'marks:']

for i in range(0,num\_students):

for entry in data:

studentdic[entry] = raw\_input(entry)

print studentdic

if(studentdic[entry]>50):

print("m1 is pass")

else:

print("m1 is fail")

if(studentdic[entry]>50):

print("m2 is pass")

else:

print("m2 is fail")

if studentdic[entry]>50):

print("m3 is pass")

else:

print("m3 is fail")

if(studentdic[entry]>50):

print("m4 is pass")

else:

print("m4 is fail")

if(studentdic[entry]>50):

print("m5 is pass")

else:

print("m5 is fail") (6)

1. Write a python program to validate the text field of username and password. (6)

def showfields():

print("username:%s"%(e1.get()))

print("password:%s"%(e2.get()))

user="praneeth"

keypassword="123456"

username=%(e1.get())

password=%(e2.get())

if user==username and keypassword==password:

print("valid user")

else:

if user!=username:

print("invalid username")

if keypassword!=password:

print("invalid password")

else:

print("invalid password")

p1=form1(self)

p1.show()

master=Tk()

Label(master,text="username").grid(row=0)

Label(master,text="password").grid(row=1)

e1=Entry(master)

e2=Entry(master)

e1.grid(row=0,column=1)

e2.grid(row=1,column=1)

Button(master, text="login", command=showfields).grid(row=3, column=1, sticky=W, pady=4)

mainloop()

**PART C (5 x 10 = 50)**

1. a. Write a python program to find the discount of sale using the following table. (10)

|  |  |  |
| --- | --- | --- |
| S.NO | Amount range | Discount % |
| 1. | 1000 - 5000 | 5% |
| 2. | 5000 - 10000 | 20% |
| 3. | 10000 - 50000 | 30% |
| 4. | >50000 | 50% |

1. a. Write a python program to find the given number is Armstrong number or not?. (5)

b. Write a python program to find matrix multiplication. (5)

1. Write a python program to book the cinema ticket, which has the facility to book, cancel and display available tickets. (10)
2. Write a python program to read a file and count how many number of character, words and lines.

(10)

1. Write a python GUI program to insert the employee data into mysql database. (10)