

Practice Program 1-

Program to print group of numbers in reverse order.

Program Code:

num = int (input ("Enter a group of any numbers: "))

rev=0

while num>0:

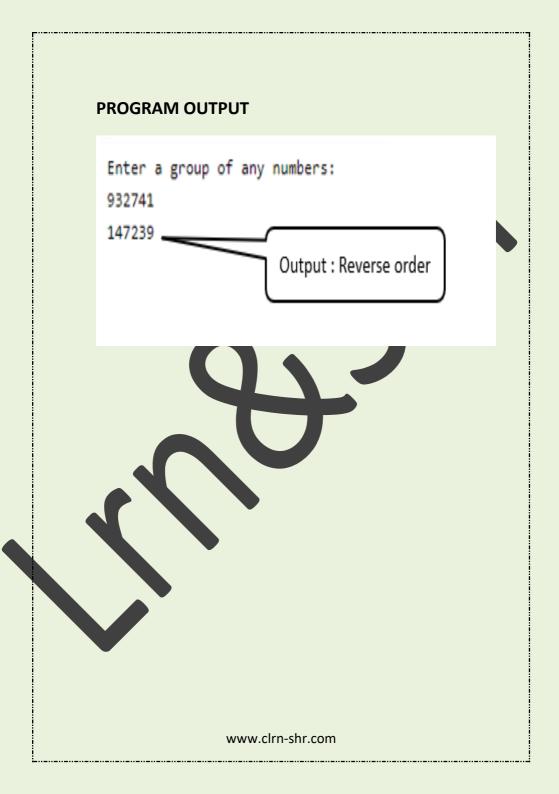
num1 = num%10

num = num - num1

num = num/10

print(int(num1), end="")

rev = rev + 1



Practice Program 2-

Program to print group of alphabets in reverse order.

alpha = input("Enter group of alphabets :")

alpha = alpha[::-1]

print("Reverse Order:",alpha)

PROGRAM OUTPUT

Enter group of alphabets :

facebook

Reverse Order: koobecaf Output : Reverse order

Practice Program 3-

Program to calculate the bonus of the sales person based on their performance for the last six months.

SM1=float (input ("Enter the first month Sales made by a sales person:"))

SM2=float (input ("Enter the second month Sales made by a sales person:"))

SM3=float (input ("Enter the third month Sales made by a sales person:"))

SM4=float (input ("Enter the fourth month Sales made by a sales person:"))

SM5=float (input ("Enter the fifth month Sales made by a sales person:"))

SM6=float (input ("Enter the sixth month Sales made by a sales person:"))

totalsales=SM1+SM2+SM3+SM4+SM5+SM6

per=totalsales*20/100

print ("Total sales made by sales person", totalsales)

if per>=10000:

print ("40% bonus")

else:

if per>=8000:

print ("30% bonus")

else:

if per>=6000:

print ("20% bonus")

else:

if per>=4000:

print ("10% bonus")

else:

if per>=3000:

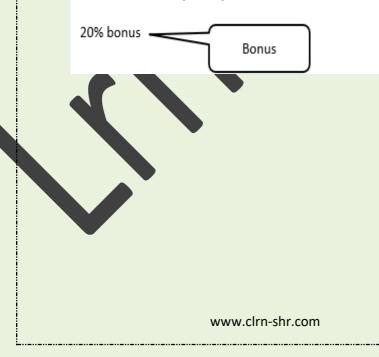
print ("5% bonus")

else:

print ("No bonus")

PROGRAM OUTPUT

Enter the first month Sales made by a sales person: 5000 Enter the second month Sales made by a sales person: 0 Enter the third month Sales made by a sales person: 9000 Enter the fourth month Sales made by a sales person: 2000 Enter the fifth month Sales made by a sales person: 1000 Enter the sixth month Sales made by a sales person: 1000 Total sales made by sales person 18000.0



Practice Program 4-

Program to count number of words in a sentence.

text = input ("Enter text : ")

tot = 1

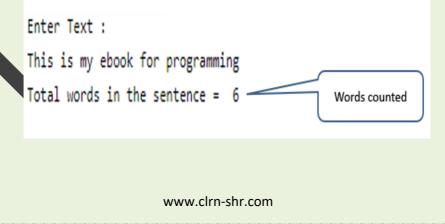
for i in range(len(text)):

if(text[i] == ' ' or text == '\n' or text == '\t'):

tot = tot + 1

print("Total words in the sentence = ", tot)





Practice Program 5-

Program to calculate compounded interest and simple interest.

import math

```
prinamt = float(input("Enter Principal: "))
```

intrt = float(input("Enter Interest rate: "))

```
time = float(input("Enter Time in Years: "))
```

cint = prinamt * (math.pow((1 + intrt / 100), time))

cmpint = cint - prinamt

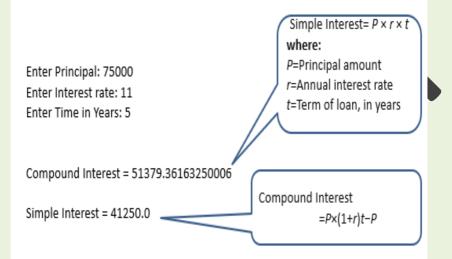
si= (prinamt * intrt * time)/100

print("Compound Interest = ", cmpint)

```
print("Simple Interest = ", si)
```

'import math' is a standard module that provides access to mathematical functions. In the above program we have used **'math.pow'** function.

PROGRAM OUTPUT



Simple interest is calculated based on the principal amount of a loan or deposit.

Compound interest is calculated based on the principal amount and the interest that accumulates on it in every period.

(source: Investopedia)

Practice Program 6-

Program to add the sequence of numbers as per

the user input.

num = input("The sequence of number to add upto:")

num = int (num)

tot = 0

for num in range(0, num+1, 1):

tot = tot+num

print("Total of first ", num, "numbers is = ", tot)

PROGRAM OUTPUT

The sequence of number to add upto:15 User input is 15 Loop starts adding from 1 to 15

Total of first 15 numbers is = 120

Practice Program 7-

Program to calculate and generate month payslip.

ename=input("Enter name of employee:")

dname=input("Enter name of department:")

```
bp=float(input("Basic pay:"))
```

da=float(input("Dearness Allowance in percentage: "))

ma=float(input("Medical Allowance:"))

hra=float(input("House Rent Allowance in percentage:"))

```
ca=float(input("Conveyance Allowance:"))
```

ptax = 450

ppf = 2500

da1=(bp*da)/100

hra1=(bp*hra)/100

totsal = bp+da1+ma+hra1+ca

netsal = totsal - ptax - ppf

print(" MONTHLY PAYSLIP")

print ("Employee Name : ", ename)

print ("Department : ", dname)

print ("Basic Salary : ", bp)

print ("Dearness Allowance : ",da1)

print ("Medical Allowance : ",ma)

print ("House Rent Allowance: ", hra1)

print ("Conveyance Allowance: ",ca)

print ("Professional Tax : ",ptax)

print ("Provident Fund : ",ppf)

print ("NET MONTHLY SALARY : ",netsal)

Dearness Allowance (DA) = Basic pay × DA %/100

House Rent Allowance (HRA)= Basic pay × HRA%/100

Total salary = Basic pay + DA + Medical + HRA + conveyance

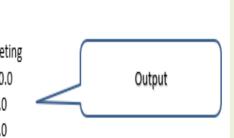
Net salary = Total salary – Professional tax – Provident fund

PROGRAM OUTPUT

Enter name of employee: Deck Enter name of department: Marketing Basic pay: 35000 Dearness Allowance in percentage: 12 Medical Allowance: 6000 House Rent Allowance in percentage: 30 Conveyance Allowance: 10000

MONTHLY PAYSLIP

Employee Name	:	Deck
Department	:	Marketin
Basic Salary	:	35000.0
Dearness Allowance	:	4200.0
Medical Allowance	:	6000.0
House Rent Allowance	:	10500.0
Conveyance Allowance	;	10000.0
Professional Tax	:	450
Provident Fund	:	2500
NET MONTHLY SALARY	:	62750.0



User Input

Practice Program 8-

Program to find smallest and largest number from the list.

list1 = []

num = int(input("Enter number of elements in list: "))

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

value = int(input("Please enter the Value of %d element : " %i))

list1.append(value)

print("The Smallest element in this list is : ", min(list1))

print("The Largest element in this list is : ", max(list1))

PROGRAM OUTPUT

Enter number of elements in list: 4 Please enter the Value of 1 Element : 45 Please enter the Value of 2 Element : 65 Please enter the Value of 3 Element : 23 Please enter the Value of 4 Element : 78 The Smallest Element in this List is : 23 The Largest Element in this List is : 78



Practice Program 9-

Program to print calendar of the month as per the user input.

import calendar

year = int(input("Enter year in digits : "))

month = int(input("Enter month in digits : "))

print(calendar.month(year, month))

Built -in-function: calendar is a function module allows to calculate weekdays as per the user input and return the output.

PROGRAM OUTPUT

Enter year in digits: 2021	User input
Enter month in digits : 4	

April 2021 Mo Tu We Th Fr Sa Su 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Practice Program 10-

Program to calculate area of the shapes as per the user input.

sp = input ("Type the shape to find area - Square, Rectangle, Triangle, Circle: ")

```
sp = sp.lower()
```

```
print ("Name of the Shape: ", sp)
```

```
if sp == "rectangle":
```

I = int(input("Enter rectangle's length: "))

b = int(input("Enter rectangle's breadth: "))

```
rarea = I * b
```

print("The area of rectangle is -.", rarea)

```
elif sp == "square":
```

s = int(input("Enter square's side length: "))

```
sqarea = s * s
```

print("The area of square is -", sqarea)

```
elif sp == "triangle":
```

h = int(input("Enter triangle's height length: "))

b = int(input("Enter triangle's breadth length: "))

tarea = 0.5 * b * h

print("The area of triangle is-", tarea)

elif sp == "circle":

r = int(input("Enter circle's radius length: "))

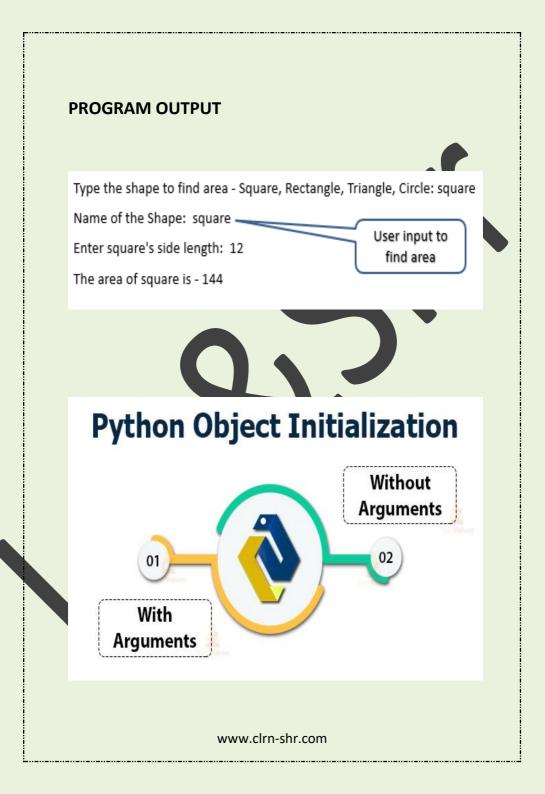
pi = 3.14

carea = pi * r * r

print("The area of circle is -",carea)

else:

print("Please enter correct shape as mentioned.")



REFERENCED SOURCE

- www.python.org,
- Python Tutorial,
- Introduction to Computer Programming Python-Ebook
- Python Concepts by Wikiversity

Find Learning Modules and Articles in various languages

Visit at : www.clrn-shr.com

or

Email : clrnandshr@gmail.com