PYTHON PROGRAMS

1- WAP AREA OF RECTANGLE

CODE

```
# wap area of rectangle
l=int(input("length in cm"))
b=int(input("breadth in cm"))
a=l*b
print("your area rectangle is:",a,"cm^2")
```

OUTPUT

```
length in cm 50
breadth in cm 20
your area rectangle is: 1000 cm^2
>>>
```

2-WAP AREA OF CIRCLE

CODE

```
r=int(input("enter your radius"))
a=3.14*(r*r)
print("your area is:",a)
```

OUTPUT

```
enter your radius50
your area is: 7850.0
>>>
```

3- WAP AREA OF CUBOID

CODE

```
l=int(input("enter length"))
b=int(input("enter breadth"))
h=int(input("enter height"))
a=2*(l*b+b*h+h*l)
print("the area is:",a)
```

OUTPUT

```
enter length10
enter breadth20
enter height10
the area is: 1000
>>>
```

PYTHON PROGRAMS

4- WAP AREA OF CUBE

CODE OUTPUT

```
a=int(input("enter length of cube"))
x=6*(a*a)
print("the area of cube is:",x)
```

```
enter length of cube5
the area of cube is: 150
>>>
```

5- WAP AREA OF CSA OF CYLINDER

CODE OUTPUT

```
r=int(input("enter radius"))
h=int(input("enter height"))
a=2*(3.14*(r*h))
print("your c.s.a is:",a)
```

```
enter radius5
enter height23
your c.s.a is: 722.2
>>>
```

6-WAP AREA OF TSA OF CYLINDER

CODE OUTPUT

```
r=int(input("enter radius"))
h=int(input("enter height"))
a=2*3.14*r*(r+h)
print("area is:",a)
```

```
enter radius5
enter height6
area is: 345.40000000000003
```

PYTHON PROGRAMS

7-WAP AREA OF CSA OF CONE

CODE

```
r=int(input("enter radius"))
l=int(input("enter length"))
a=3.14*r*l
print("csa is:",a)
```

OUTPUT

```
enter radius5
enter length5
csa is: 78.5
>>>
```

8- WAP AREA OF TSA OF RIGHT CIRCULAR CONE

CODE

```
r=int(input("enter radius"))
l=int(input("enter slant height5"))
a=3.14*r*(l+r)
print("the tsa is:",a)
```

OUTPUT

```
enter radius5
enter slant height53
the tsa is: 125.60000000000001
>>>
```

9- WAP TSA OF SPHERE

CODE

```
r=int(input("enter radius"))
a=4*(3.14*(r*r))
print("tsa of sphere is:",a)
```

OUTPUT

```
enter radius5
enter length5
csa is: 78.5
>>>
```

PYTHON PROGRAMS

10-WAP VOLUME OF CUBOID

CODE

```
l=int(input("enter length"))
b=int(input("enter breadth"))
h=int(input("enter height"))
a=l*b*h
print("volume of cuboid is:",a)
```

OUTPUT

```
enter length5
enter breadth6
enter height2
volume of cuboid is: 60
>>>
```

11-WAP VOLUME OF CUBE

CODE

```
l=int(input("enter length"))
a=l*l*l
print("volume of cube is:",a)
```

OUTPUT

```
enter length5
volume of cube is: 125
>>>
```

12-WAP VOLUME OF CYLINDER

CODE

```
r=int(input("enter radius"))
h=int(input("enter height"))
v=3.14*(r*r)*h
print("volume is:",v)
```

OUTPUT

```
enter radius2
enter height9
volume is: 113.04
>>>
```

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PYTHON PROGRAMS

13- WAP VOLUME OF CONE

CODE

```
r=int(input("enter radius"))
h=int(input("enter height"))
v=1/3*(3.14*(r*r)*h)
print("volume is:",v)
```

OUTPUT

```
enter radius5
enter height3
volume is: 78.5
>>>
```

14-WAP VOLUME OF SPHERE

CODE

```
r=int(input("enter radius"))
v=4/3*(3.14*(r*r*r))
print("volume is:",v)
```

OUTPUT

```
enter radius2
volume is: 33.49333333333333
>>>
```

15-WAP PERIMETER OF RECTANGLE

CODE

```
l=int(input("enter length in cm "))
b=int(input("enter breadth in cm "))
a=2*(l+b)
print("perimeter of rectangle is:",a,"cm")
```

OUTPUT

```
enter length in cm 26
enter breadth in cm 12
perimeter of rectangle is: 76 cm
>>>
```

PYTHON PROGRAMS

16- WAP AREA OF SQUARE

CODE

```
A=int(input("enter length in cm "))
x=A*A
print("your area of square is:",x,"cm^2")
```

OUTPUT

```
enter length in cm 2
your area of square is: 4 cm^2
>>>
```

17- WAP AREA OF TRIANGLE

CODE

```
h=int(input("enter height"))
b=int(input("enter base"))
a=1/2*(b*h)
print("your area is:",a,"cm^2")
```

OUTPUT

```
enter height4
enter base5
your area is: 10.0 cm^2
```

PYTHON PROGRAMS

18- WAP GREATEST NO. IN THREE NO.

CODE

```
a=int(input("enter first no "))
b=int(input("enter second no "))
c=int(input("enter third no"))
if a>b:
    if a>c:
        print("the greatest no is:",a)
    else:
        print("the greatest no is:",c )
else:
    if b>c:
        print("the greatest no is:",b)
    else:
        print("the greatest no is:",c)
```

OUTPUT

```
enter first no 5
enter second no 6
enter third no7
the greatest no is: 7
>>>
```

19- WAP PERIMETER OF TRIANGLE

CODE

```
a=int(input("enter first side of tringle "))
b=int(input("enter second side of tringle "))
c=int(input("enter third side of tringle "))
perimeter=a+b+c
print("the perimeter is:",perimeter)
```

OUTPUT

```
enter first side of tringle 2
enter second side of tringle 3
enter third side of tringle 3
the perimeter is: 8
>>>
```

PYTHON PROGRAMS

20- WAP GREATEST NO. IN FOUR NO.

CODE

```
a=float(input("enter first no "))
b=float(input("enter second no "))
c=float(input("enter third no "))
d=float(input("enter fourth no "))
if (a>b and a>c and a>d):
    print("greatest number is:",a)
elif (b>c and b>d):
    print("greatest number is:",b)
elif (c>d):
     print("greatest number is:",c)
elif (d>c):
     print("greatest number is:",d)
else:
    print("Either any two values or all the four values are equal")
```

OUTPUT

```
enter first no 55
enter second no 66
enter third no 33
enter fourth no 55
greatest number is: 66.0
>>>
```

PYTHON PROGRAMS

21-WAP TO CHECK DIVISION IN RESULT

CODE

```
a=eval(input("enter marks out Of 300 "))
b=a/300*100
print("percentage is",b,"%")
if(a>300):
    print("you entered a wrong marks")
elif b>60:
    print ("your division is first")
elif(b>50 and b<53):
    print("your division is second")
elif(b>33 and b<50):
    print("your division is third")
else:
    print("fail")
```

OUTPUT

```
enter marks out Of 300 251
percentage is 83.66666666666667 %
your division is first
>>>
```

PYTHON PROGRAMS

22-WAP TO CHEAK AGE CRITERIA

CODE

```
y=int(input("enter your age "))
if  (y>0 and y<12):
    print("kid")
elif(y>=12 and y<19):
    print("teenager")
elif(y>19 and y<30):
      print("young")
elif(y>30 and y<45):
      print("mature")
elif(y>45 and y<60):
      print("experienced")
elif(y>60 and y<75):
      print("old")
elif(y>75):
      print("senior citizen")
```

OUTPUT

```
enter your age 17
teenager
>>>
```


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PYTHON PROGRAMS

23- WAP SUM OF NTH NO.

CODE

```
n=int(input("enter limit"))
s=0
for c in range(1,n):
    s=c+s
print("the sum is",s)
```

OUTPUT

```
enter limit5
the sum is 10
>>>
```

24- WAP TO CHEAK THE VALUE OF FACTORIAL

OUTPUT

```
enter a number10
the factorial of 10 is 3628800
>>>
```

CODE

```
a=int(input("enter a number"))
factorial =1
if a<0:
   print("sorry,factorial does not exist for negative number")
elif a==0:
   print("the factorial of 0 is 1")
else:
   for i in range (1,a+1):
      factorial=factorial*i
   print("the factorial of",a,"is",factorial)
```

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PYTHON PROGRAMS

25- WAP TO PRINT MULTIPLICATION TABLE

CODE

```
a=int(input("show the multiplication table of? "))
for i in range(1,11):
    print(a,"x",i,"=",a*i)
```

OUTPUT

```
show the multiplication table of? 18
18 x 1 = 18
18 x 2 = 36
18 x 3 = 54
18 x 4 = 72
18 x 5 = 90
18 x 6 = 108
18 x 7 = 126
18 x 8 = 144
18 x 9 = 162
18 x 10 = 180
>>>
```

26- WAP TO PRINT OPPOSITE RIGHT ANGLE TRIANGLE

CODE

```
num=int(input("enter the number rows"))
for i in range(num,0,-1):
    for j in range (0,i):
        print("*" ,end="")
    print()
```

OUTPUT

```
enter the number rows5
*****
****
***
**
*
>>>
```

PYTHON PROGRAMS

27- WAP TO PRINT 1,22,333,444

CODE

```
n=int(input("enter the no of rows:"))
for i in range(1,n+1):
    for j in range(1,i+1):
        print(i,end="")
    print()
```

OUTPUT

```
enter the no of rows:5
1
22
333
4444
55555
>>>
```

28- WAP TO PRINT STAR PATTERN OF OPPOSITE TRIANGLE

CODE

```
num=int(input("enter the number rows"))
for i in range (0,num):
    for j in range (0,num-i):
        print(" ",end="")
    for k in range(0,i+1):
        print("*",end="")
    print("")
```

OUTPUT

```
enter the number rows5
    *
   **
  ***
 ****
*****
>>>
```

PYTHON PROGRAMS

29- WAP TO PRINT PATTERN 1,12,123

```
n=int(input("enter the no of rows:"))
for i in range(1,n+1):
    for j in range(1,i+1):
        print(j,end="")
    print()
```

CODE

```
enter the no of rows:5
1
12
123
1234
12345
>>>
```

OUTPUT

PYTHON PROGRAMS

30- WAP TO PRINT FIBONACCI SERIES USE WHILE LOOP

CODE

```
a=eval(input("enter the range"))
i=0
first_value = 0
second_value= 1
while(i<a):
    if(i<=1):
        Next =i
    else:
         Next = first_value + second_value
         first_value = second_value
         second_value = Next
    print(Next)
    i=i+1
```

OUTPUT

```
enter the range5
0
1
1
2
3
>>>
```

PYTHON PROGRAMS

31- WAP TO PRINT FIBONACCI SERIES USE FOR LOOP

```
number=int(input("enter the range"))
first_value=0
second_value=1
for num in range(0,number):
    if(num<=1):
        NEXT=num
    else:
        NEXT=first_value + second_value
        first_value=second_value
        second_value=NEXT
    print(NEXT)
```

CODE

```
enter the range5
0
1
1
2
3
>>>
```

OUTPUT

PYTHON PROGRAMS

32- WAP TO PRINT PATTERN A,AB,ABC

```
ch=str(input("enter a character "))
a=ord(ch)
for x in range(65,a+1):
    for c in range (65,x+1):
        print(chr(c),end="")
    print("")
```

CODE

```
enter a character E
A
AB
ABC
ABCD
ABCDE
>>>
```

OUTPUT

PYTHON PROGRAMS

33- WAP TO CALCULATION OF X^n BY FOR LOOP

```
x=int(input("enter no "))
b=int(input("enter power "))
y=x
for a in range(0,b-1):
    y=x*y
print(y)
```

CODE

```
enter no 5
enter power 2
25
>>>
```

OUTPUT

33- WAP TO CALCULATION OF X^n

```
a=int(input("enter number "))
b=int(input("enter power "))
c=a**b
print(c)
```

CODE

```
enter number 2
enter power 2
4
>>>
```

OUTPUT

PYTHON PROGRAMS

33- WAP TO PRINT THE INTEGER IS PALINDROME OR NOT PALINDROME

```
n=int(input("enter number"))
x=n
r=0
while n>0:
    d=n%10
    r=r*10+d
    n=n//10
if x==r:
    print("the number is palindrome")
else:
    print("the number is not palindrome")
```

CODE

```
enter number121
the number is palindrome
>>>
```

OUTPUT

PYTHON PROGRAMS

35-WAP TO PRINT FACTORIAL OF LIST

```
a=[]
fact=[]
ch="y"
while ch=="y" or ch=="Y":
      item=int(input("enter the element of list "))
      a.append(item)
      ch=input("do you want to enter more element :")
print("the list is:",a)
for i in a:
    f=1
    for j in range(1,i+1):
        f=f*j
    fact.append(f)
print("the factorial of each element is:",fact)
```

CODE

```
enter the element of list 5
do you want to enter more element :Y
enter the element of list 6
do you want to enter more element :Y
enter the element of list 62
do you want to enter more element :N
the list is: [5, 6, 62]
the factorial of each element is: [120, 720, 31469973260387937525653122354950764
088012280797258232192163168247821107200000000000000]
>>>
```

OUTPUT

PYTHON PROGRAMS

36-WAP TO PRINT PASCAL TRIANGLE

```
n=int(input("enter rows "))
for i in range(0,n):
    for j in range(0,n-i-1):
        print(end=" ")
    for j in range(0,i+1):
        print("*",end=" ")
    print()
```

CODE

```
enter rows 5
    *
   * *
  * * *
 * * * *
* * * * *
```

OUTPUT

PYTHON PROGRAMS

37-WAP TO CREATE A LIST OF VALUES INPUTTED BY USER

CODE

```
a=eval(input("enter limit"))
n=[]
for a in range(1,a+1):
     a=eval(input("enter element "))
     n.append(a)
print(n)
```

OUTPUT

```
enter limit4
enter element 65
enter element 32
enter element 82
enter element 62
[65, 32, 82, 62]
>>>
```

38-WAP TO CREATE A LIST OF VALUES INPUTTED BY USER AND SORT IN INCREASING ORDER

CODE

```
a=eval(input("enter limit"))
lst=[]
for a in range(1,a+1):
     a=eval(input("enter element "))
     lst.append(a)
print(lst)
l=len(lst)
for i in range(l):
    for j in range(0,l-i-1):
        if lst[j]>lst[j+1]:
           temp=lst[j]
           lst[j]=lst[j+1]
           lst[j+1]=temp
print("after sorting the list is ")
print(lst)
```

OUTPUT

```
enter limit4
enter element 25
enter element 63
enter element 52
enter element 41
[25, 63, 52, 41]
after sorting the list is
[25, 41, 52, 63]
>>>
```

PYTHON PROGRAMS

39-SORTING IN ACCENDING ORDER USE BUBBLE SORT

```
a=eval(input("enter limit"))
lst=[]
for a in range(1,a+1):
     a=eval(input("enter element "))
     lst.append(a)
print(lst)
l=len(lst)
for i in range(l):
    for j in range(0,l-i-1):
        if lst[j]>lst[j+1]:
           temp=lst[j]
           lst[j]=lst[j+1]
           lst[j+1]=temp
print("after sorting the list is ")
print(lst)
```

CODE

```
enter limit4
enter element 6
enter element 2
enter element 3
enter element 4
[6, 2, 3, 4]
after sorting the list is
[2, 3, 4, 6]
>>>
```

OUTPUT

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PYTHON PROGRAMS

40- WAP in Python to create a phone dictionary

CODE

```
n=int(input("enter limit"))
m={}
mob=0
name=""
i=0
for i in range(0,n):
    mob=int(input("enter mobile number "))
    name=str(input("enter name "))
    z2=dict({mob:name})
    m.update(z2)
print(m)
n=int(input("enter the no to search in dictionary "))
print("the name of person is ",m[n])
```

OUTPUT

```
enter limit2
enter mobile number 7376535332
enter name KESHWAM BAJPAI
enter mobile number 9807900071
enter name ACHYUTAM BAJPAI
{7376535332: 'KESHWAM BAJPAI', 9807900071: 'ACHYUTAM BAJPAI'}
enter the no to search in dictionary 9807900071
the name of person is  ACHYUTAM BAJPAI
>>>
```

PYTHON PROGRAMS

41- WAP TO FIND GIVEN NUMBER IS PRIME OR NOT

```
num=int(input("enter number "))
lim=int(num/2)+1
for i in range(2,lim):
        rem=num%i
        if rem==0:
            print(num,"is not prime number")
            break
else:
        print(num,"is prime number")
```

CODE

```
enter number 5
5 is prime number
```

OUTPUT

PYTHON PROGRAMS

42-WAP TO FIND GIVEN NUMBER IS EVEN OR ODD

```
a=int(input("enter number "))
r=a%2
if r==0:
        print(a,"is even number ")
elif r>0:
        print(a,"is odd number ")
else:
        print("you enter a number  0 or less than 0")
```

CODE

```
enter number 6
6 is even number
```

OUTPUT

PYTHON PROGRAMS

43- WAP TO CREATE A TUPLE OF VALUES INPUTED BY USER

```
a=()
l=[]
n=int(input("enter limit "))
for i in range(0,n):
    item=int(input("enter element "))
    l.append(item)
a=a+tuple(l)
print("tuple is",a)
```

CODE

```
enter limit 5
enter element 52
enter element 63
enter element 952
enter element 25
enter element 125
tuple is (52, 63, 952, 25, 125)
>>>
```

OUTPUT

PYTHON PROGRAMS

44-WAP TO REVERSE AN INTEGER

CODE

```
n=int(input("enter the integer "))
x=n
r=0
while n>0:
      d=n%10
      r=r*10+d
      n=n//10
print("the reversed integer is:",r)
```

OUTPUT

```
enter the integer 52145666
the reversed integer is: 66654125
```

PYTHON PROGRAMS

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