Python Programming - Lab - 1

March 11, 2025

[ ]:

Python Programming - 2301CS404

Lab - 1

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0.0.1 01) WAP to print “Hello World”

[ ]:
```
print("Hello World")
```

0.0.2 02) WAP to print addition of two numbers with and without using input().

[2]:
```
# a =int(input("Enter number 1"))
# b = int(input("Enter number 2"))
# print(a+b)

# print(4+5)
```

```
9
```

0.0.3 03) WAP to check the type of the variable.

[7]:
```
a = input("enter a")
print(type(5))
# print('{hi}')
```

```
{hi}
```

0.0.4 04) WAP to calculate simple interest.

[9]:
```
p = int(input("enter p"))
r = int(input("enter r"))
t = int(input("enter t"))
sI = (p*r*t)/100
print(sI)
```

```
enter p10
enter r10
```

```
enter t10
10.0
```

0.0.5 05) WAP to calculate area and perimeter of a circle.

[14]:
```
import math
r = int(input("enter r"))
print(f"perimeter = {2*math.pi*r} \n area = {math.pi*r*r}")
```

```
enter r10
perimeter = 62.83185307179586
 area = 314.1592653589793
```

0.0.6 06) WAP to calculate area of a triangle.

[16]:
```
b = int(input("enter b"))
h = int(input("enter h"))
print((b*h)/2)
```

```
enter l2
enter b2
enter h2
4.0
```

0.0.7 07) WAP to compute quotient and remainder.

[17]:
```
divident = int(input("enter divident"))
divisor = int(input("enter divisor"))

print(f"quotient = {int(divident/divisor)} \n remainder = {divident%divisor}")
```

```
enter divident25
enter divisor6
quotient = 4
 remainder = 1
```

0.0.8 08) WAP to convert degree into Fahrenheit and vice versa.

[18]:
```
f = float(input("enter f"))
c = float(input("enter c"))
print(f"c = {(c*9/5)+32} \n f = {(f-32)*5/9}")
```

```
enter f77
enter c25
c = 77.0
 f = 25.0
```

0.0.9 09) WAP to find the distance between two points in 2-D space.

[19]:
```
import math
x1=int(input("enter x1"))
x2=int(input("enter x2"))
y1=int(input("enter y1"))
y2=int(input("enter y2"))
print(math.sqrt((x2-x1)**2 + (y2-y1)**2))
```

```
enter x11
enter x24
enter y12
enter y26
5.0
```

0.0.10 10) WAP to print sum of n natural numbers.

[24]:
```
n = int(input("enter n"))
sum=0
for i in range(1,n+1):
    sum+=i
print(sum)
```

```
enter n3
6
```

0.0.11 11) WAP to print sum of square of n natural numbers.

[25]:
```
n = int(input("enter n"))
sum=0
for i in range(1,n+1):
    sum+=i**2
print(sum)
```

```
enter n3
14
```

0.0.12 12) WAP to concate the first and last name of the student.

[28]:
```
first = input("enter first")
last = input("enter last")
print(first+last,sep=" ")
```

```
enter firstmeet
enter lastok
meetok
```

0.0.13 13) WAP to swap two numbers.

[2]:
```
a=10
b=20
temp=a
a=b
b=temp
print(a,b,sep=" ")
```

```
20 10
```

0.0.14 14) WAP to get the distance from user into kilometer, and convert it into meter, feet, inches and centimeter.

[4]:
```
km = float(input("enter km"))
print(f"meter = {km * 1000}",f"feet = {3280.84}",f"inches = {39370.
  ↪1}",f"centimeter = {100000}",sep="\n");
```

```
meter = 1000.0
feet = 3280.84
inches = 39370.1
centimeter = 100000
```

0.0.15 15) WAP to get day, month and year from the user and print the date in the given format: 23-11-2024.

[5]:
```
day = int(input("day"))
month = int(input("month"))
year = int(input("year"))
print(f"{day}-{month}-{year}")
```

```
23-11-2024
```

[ ]:
```

```