kyycoezl4

March 12, 2025

Python Programming - 2301CS404

Lab - 1

<h1>KHUSHI PATEL | 23010101202 | 29-11-2024

0.0.1 01) WAP to print "Hello World"

[33]:
```
print("Hello World")
```

```
Hello World
```

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

[6]:
```
a=int(input("Enter the value of a:"))
b=int(input("Enter the value of b:"))
print(f"wiith input {a+b}")
c,d=5,7
print(f"without  input of {c} and {d} {c+d}")
```

```
Enter the value of a: 5
Enter the value of b: 6
```

```
wiith input 11
without  input of 5 and 7 12
```

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

[10]:
```
a=10
type(a)
```

[10]:
```
int
```

0.0.4 04) WAP to calculate simple interest.

[13]:
```
p=float(input("enter the principle"))
r=float(input("Enter the rate"))
t=float(input("Enter time"))
print(f"SI={p*r*t/100}")
```

```
enter the principle 52000
Enter the rate 8
Enter time 6

SI=24960.0
```

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

[20]:
```
import math as m
r=float(input("enter the radius of circle"))
print(f"area of circle={3.14*r*r}")
print(f"perimeter of circle={2*3.14*r}")
```

```
enter the radius of circle 52

area of circle=8490.56
perimeter of circle=326.56
```

0.0.6 06) WAP to calculate area of a triangle.

[21]:
```
b=int(input("enter base"))
h=int(input("enter height"))
print(f"area={1/2*b*h}")
```

```
enter base 5
enter height 2

area=5.0
```

0.0.7 07) WAP to compute quotient and remainder.

[23]:
```
a=int(input("Enter the value of a:"))
b=int(input("Enter the value of b:"))
print(f"quotient{a/b}")
print(f"quotient{a//b}")
print(f"remainder{a%b}")
```

```
Enter the value of a: 5
Enter the value of b: 2

quotient2.5
quotient2
remainder1
```

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

[30]:
```
temp=int(input("Enter temp"))
n=int(input("Enter 1 for c-f or 2 for f-c"))
if(n==1):
    print(f"temp in fahrenheit{temp*9/5+32}")
```

```
else:
     print(f"temp in celcius{((32*temp)-32)*(5/9)}")
```

```
Enter temp 52
Enter 1 for c-f or 2 for f-c 2
```

```
temp in celcius906.6666666666666
```

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

[38]:
```
import math as m
x1=float(input("enter x1"))
x2=float(input("enter x2"))
y1=float(input("enter y1"))
y2=float(input("enter y2"))
dist= m.sqrt(((x1-x2) ** 2) + ((y1-y2) ** 2))
print(f"distance between two points{dist}")
```

```
enter x1 4
enter x2 6
enter y1 0
enter y2 6
```

```
distance between two points6.324555320336759
```

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

[8]:
```
n=int(input("Enter n"))
print(f"sum of n number is {n*(n+1)/2}")
```

```
Enter n 5
```

```
sum of n number is 15.0
```

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

[14]:
```
n=int(input("Enter n"))
print(f"sum of square of n term {(n*(n+1)*(2*n+1))/6}")
```

```
Enter n 3
```

```
sum of square of n term 14.0
```

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

[2]:
```
print("Khushi","Patel")
```

```
Khushi Patel
```

0.0.13 13) WAP to swap two numbers.

[1]:
```
a=int(input("enter number a"))
b=int(input("enter number b"))
a=a+b
b=a-b
a=a-b
print(f"a={a} b={b}")
```

```
enter number a 1
enter number b 2
```

```
a=2 b=1
```

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

[19]:
```
km=float(input("enter kilometer"))
print(f"{km} km = {km*1000} meters")
print(f"{km} km = {km*3280.84} feet")
print(f"{km} km = {km*100000} centimeter")
print(f"{km} km = {km*39370.1} inches")
```

```
enter kilometer 5
```

```
5.0 km = 5000.0 meters
5.0 km = 16404.2 feet
5.0 km = 500000.0 centimeter
5.0 km = 196850.5 inches
```

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.

[21]:
```
d=int(input("enter the day"))
m=int(input("Enter the month"))
y=int(input("Enter year"))
print(d,m,y,sep="-")
```

```
enter the day 23
Enter the month 11
Enter year 2024
```

```
23-11-2024
```