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Experiment No:- 1

1. write a program to Print "welcome to python world"
2. write a program to input your name, age and address and print them.
3. write a program to find the area and perimeter of a circle.
4. write a Program to input two integers, find sum and product of them.
5. write a Program to input two integers and swap them using 3rd variable
6. write a program to input two integers and swap them without using 3rd variable.
7. write a Program to input your marks for three subjects then find sum and percentage
8. write a program to find the area and perimeter of a triangle.

Answer :-

1. Print ("welcome to Python world")

output :-

welcome to python world

2.
```
name = input("Enter your name :-")
age = int (input("Enter your age :-")
address = input ("Enter your address :-")
Print ("Name :- ", name)
print ("Age :- ", age)
print ("Address :- ", address)
```

Output:-
Enter your name :- Rajesh Rana
Enter your age :- 20
Enter your address :- Bhadrak
Name :- Rajesh Rana
Age :- 20
Address :- Bhadrak

3 r=int(input("Enter the radius:- "))
print("Area is", (3.14*r*r))
print("perimeter is", (2*3.14*r))

Output:-
Enter the radius :-2
Area is 12.56
Perimeter is 12.56

4 a=int(input("Enter first number :- "))
b=int(input("Enter second number :-"))
print(a, "+", b, "=", (a+b))
print(a, "x", b, "=", (a*b))

Output:-
Enter first number :-2
Enter second number :-3
2 + 3 = 5
2 x 3 = 6

5
```
a = int (input ("Enter first number :-"))
b = int (input ("Enter second number :-"))
print ("Before swapping :- a =", a, "b =", b)
temp = a
a = b
b = temp
print ("After swapping :- a =", a, "b =", b)
```

output :-

Enter first number :- 8
Enter second number :- 7
Before swapping :- a = 8 b = 7
After swapping :- a = 7 b = 8

6
```
a = int (input ("Enter first number :-"))
b = int (input ("Enter second number :-"))
print ("Before swapping :- a =", a, "b =", b)
a = a+b
b = a-b
a = a-b
print ("After swapping :- a =", b, "b =", b)
```

output :-

Enter first number :- 5
Enter second number :- 6
Before swapping :- a = 5 b = 6
After swapping :- a = 6 b = 5

7 a=int(input("Enter your first subject mark :- "))
b=int(input("Enter your second subject mark :- "))
c=int(input("Enter your third subject mark :- "))
sum = a+b+c
per = sum/3
Print("Total mark is", sum)
Print("Percentage is", per)

output :-
Enter your first subject mark :- 70
Enter your second subject mark :- 80
Enter your third subject mark :- 90
Total mark is 240
Percentage is 80.0

8 a = int(input("Enter first side :-"))
b = int(input("Enter second side :-"))
c = int(input("Enter third side :-"))
sum = a+b+c
s = sum/2
area = (s*(s-a)*(s-b)*(s-c))**0.5
Print("Area is ", area)
Print("Perimeter is ", sum)

output :-
Enter first side :- 2
Enter second side :- 3
Enter third side :- 4
Area is 2.9047378096555625
Perimeter is 9

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Experiment No :-2

1 write a program to display simple interest and compound interest.

2 write a program to input 1st name, mid name and last name into three variables and then apply concatenation.

3 write a program to create a list by initializing with 5 different fruits names and display them.

4 write a program to create a tuple and display the elements of it.

5 write a program to create a dictionary, store sample data and then display the key, values of it.

6 write a program to input a sentence and then print the reverse of it.

7 write a program to input data for int, string, float, boolean, complex, and then display their data type

8 write a program to input a string "hello world". Display it in: upper case, lower case, 1st letter capitilized, find length

9 write a program to input a string " good morning friends how are you all" and do the operations: display in reverse order of characters, split whole sentence into individual words and store as a list

1. write a program to input a string " hi ram hi shyam hi mam ". search the word "hi" and replace it with "hello". Remove the white spaces from the beginning and end and then display the sentence.

Answer:-

```
p = float(input("Enter the principal amount :-"))
r = float(input("Enter the rate of interest :-"))
t = float(input("Enter the time period in years :-"))
n = int(input("Enter the number of times interest is
compounded per year :-"))
si = (p*r*t)/100
print("simple interest is :-", si)
a = p*(1+r/n)**(n*t)
ci = a-p
print("Compound interest is :-", ci)
```

output:-

```
Enter the principal amount :-12000
Enter the rate of interest :-8
Enter the time period in years :-2.5
Enter the number of times interest is compounded per year:-2
simple interest is :- 2400.0
Compound interest is :- 3748000.0
```

2
```
a = input("Enter your 1st name :- ")
b = input("Enter your mid name :- ")
c = input("Enter your last name :- ")
full_name = a+b+c
print("your name is", full_name)
```

output :-

Enter your 1st name :- Jiban
Enter your mid name :- Jyoti
Enter your last name :- Puthal
Your name is Jiban Jyoti puthal

3
```
l=[]
print("Enter five fruits name :- ")
for i in range(0,5):
    l.append(input())
print("The entered fruits name are :- ", end=" ")
for i in range(0,5):
    print(l[i], end=", ")
```

output :-

Enter five fruits name :-
apple
banana
cherry
mangoo
coconut
The entered fruits name are :- apple, banana, cherry, mangoo, coconut,

2
```
a = Input("Enter your 1st name :-")
b = input ("Enter your mid name :-")
c = input ("Enter your last name :-")
full-name = a+b+c
print ("your name is", full-name)
```

output :

Enter your 1st name :- Jiban
Enter your mid name :- Jyoti
Enter your last name :- puthal
Your name is Jiban Jyoti puthal

3
```
l=[]
print ("Enter five fruits name :-")
for i in range(0,5):
    l.apend (input())
print ("The entered fruits name are :- ", end=" ")
for i in range(0,5):
    print (l[i], end=", ")
```

output :-

Enter five fruits name :-
apple
banana
cherry
mangoo
coconut
The entered fruits name are :- apple, banana, cherry, mangoo, coconut,

4
```
t = (15, "Rajesh Rana", 20, "Bhadrak")
print ("Elements in the tuple are :- ", end = " ")
for i in t:
    print (i, end = ", ")
```

output:-
Elements in the tuple are :- 15, Rajesh Rana, 20, Bhadrak,

5
```
d = {"Name" : "Rajesh Rana",
     "Roll Number" : "24CSEAIML015",
     "Age" : 20
    }
print ("Dictionary data are :-", d)
print ("Keys are :- ", d.keys())
print ("values are :- ", d.values())
```

output:-
Dictionary data are :- {'Name': 'Rajesh Rana', 'Roll Number': '24CSEAIML015', 'Age': 20}
Keys are :- dict_keys(['Name', 'Roll Number', 'Age'])
values are :- dict_values(['Rajesh Rana', '24CSEAIML015', 20])

6
```
i = input ("Enter a string :- ")
print ("Reversed string is :- ", i[::-1])
```

output:-
Enter a string :- Rajesh Rana
Reversed string is :- anaR hsejaR

7
```
i = 20
s = "Rajes"
f = 8.88
b = True
c = 2+7j
Print ("Datatype of i is: ", type(i))
print ("Datatype of s is : ", type(s))
print ("Datatype of f is: ", type(f))
Print ("Datatype of b is: ", type(b))
print ("Datatype of c is: ", type (c))
```

output:-

```
Datatype of i is: <class 'int'>
Datatype of s is: <class 'str'>
Datatype of f is: <class 'float'>
Datatype of b is: <class 'bool'>
Datatype of c is: <class 'complex'>
```

8
```
s = "hello world"
Print (s, " in upper case: ", s.upper())
Print (s, " in lower case: ", s.lower())
Print (s, "in 1st capitalize : ", s.capitalize())
Print (s, "length is : ", len(s))
```

output:-

```
hello world in upper case : HELLO WORLD
hello world in lower case : hello world
hello world in 1st capitalize : Hello world
hello world length is: 11
```

9 s = "Good morning friends how are you all"
Print ("In reverse order :", s[::-1])
s.split (" ")
print ("Splitting the words :", s)

output :-
In reverse order : ll a uoy era woh sdneirf
gninrom dooG
Splitting the words : ['Good', 'morning', 'friends',
'how', 'are', 'you', 'all']

10 s = " hi ram hi shyam hi mam "
s = s.replace("hi", "hello")
Print ("After replacing the 'hi' with "hello" :", s)
Print ("After removing the white space :", s.strip())

output :-
After replacing the 'hi' with 'hello' : hello ram
hello shyam hello mam
After removing the white space : hello ram hello shyam
hello mam