

# Week - 1

1) Write a python program to add 2 numbers

```
a=10  
b=20  
c=a+b  
print("The sum is:", c)
```

Output:

The sum is: 30

2) Write a python program to find total and average of 4 subjects.

```
a=int(input("Enter a Value:"))
```

```
b=int(input("Enter b Value:"))
```

```
c=int(input("Enter c Value:"))
```

```
d=int(input("Enter d Value:"))
```

```
total=a+b+c+d
```

```
Average=total/4
```

```
print("The total is:", total)
```

```
print("The Average is:", Average)
```

Output:

Enter a Value : 10

Enter b Value: 20

Enter c Value: 30

Enter d Value: 40

The total is : 100

The Average is : 25

3) Write a python program to perform all arithmetic operators.

```
a=int(input("Enter a Value:"))
```

```
b=int(input("Enter b Value:"))
```

```
print("The add is: ", a+b)
```

```
print("The sub is: ", a-b)
```

```
print("The Multiply is: ", a*b)
```

```
print("The Division is: ", a/b)
```

```
print("The Exponential is: ", a**b)
```

```
print("float division is:", a/b)
```

Output:

a = 10

b = 5

The add is: 15

The sub is: 5

The Multiply is: 50

The Division is: 2

The Exponential is: 1,00,000

The float division: 2.0

- 4) Write a python program to calculate compound interest.

```
P = int(input("Enter principle amount"))
```

```
r = int(input("Enter rate of amount"))
```

```
n = int(input("Enter no. of times interest applied"))
```

```
t = int(input("Enter time periods in year"))
```

```
ci = p * ((1+r/(100*n))** (n*t)) - p
```

```
Print("Compound interest: ", ci)
```

Output:

P = 20000

r = 2

n = 3

t = 1

ci = 40,400

- 5) Write a python program to find the distance between 2 points  $(x_1, y_1), (x_2, y_2)$

```
x1 = int(input("Enter coordinate x1:"))
```

```
x2 = int(input("Enter coordinate x2:"))
```

```
y1 = int(input("Enter coordinate y1:"))
```

```
y2 = int(input("Enter coordinate y2:"))
```

```
d = ((x2 - x1)** 2 + (y2 - y1)** 2)** 1/2
```

```
Print("Distance = ", d)
```

Output:  
 $x_1 = 2$   
 $x_2 = 5$   
 $y_1 = 4$   
 $y_2 = 6$   
Distance = 3.605

to fisher's hut of competing godfathers in field  
to fisher's hut of competing godfathers in field

((random hill 1000) logit) tool - 1000  
((random hill 1000) logit) tool - 6000  
((random hill 1000) logit) tool - 8000  
((random hill 1000) logit) tool - 10000  
(((mean < 1000) tool < mean)) if  
1000 - 10000

(((mean < 1000) tool < mean)) if  
mean - hospital

hospital < 1000 hospital if  
1000 - 10000

0.88 = 1000

to fisher's hut of competing godfathers in field  
to fisher's hut of competing godfathers in field

((mean < 1000) tool < 10000) if  
0.88 = 1000

## Week - 2

- 1) Write a python program to check a number even or odd

```
num = int(input("Enter any number"))
if (num % 2 == 0):
    print("Given number", num, "is even")
else:
    print("Given number", num, "is odd")
```

Output:

num=9

Given number 9 is odd

- 2) Write a python program to find the greatest of 3 numbers using elif

```
num1 = float(input("Enter first number"))
num2 = float(input("Enter second number"))
num3 = float(input("Enter third number"))
if (num1 >= num2) and (num1 >= num3):
    largest = num1
elif (num2 >= num1) and (num2 >= num3):
    largest = num2
else:
    largest = num3
```

print("The largest no is: ", largest)

Output:

num1 = 32.30

num2 = 5.06

num3 = 1.01

The largest no is: 32.30

- 3) Write a python program to find the grade of student

Marks = 92

```
if ((Marks >= 90) and (Marks < 100)):
    print("grade O")
```

```
elif(marks >= 80) and (marks < 90):
    print("grade A")
elif((marks >= 70) and (marks < 80)):
    print("grade B")
elif((marks >= 60) and (marks < 70)):
    print("grade C")
elif((marks >= 50) and (marks < 60)):
    print("grade D")
else:
    print("fail")
```

Output:

grade 0

- 4) Write a python program to find the greatest of 3 numbers using nested if statement

a,b,c = 10,20,30

```
if(a>b):
    if(a>c):
        print("a is greatest")
    else:
        print("c is greatest")
elif(b>c):
    print("b is greatest")
else:
    print("c is greatest")
```

Output:

c is greatest

- 5) Write a python program to print the factorial of a number using for loop

```
n = int(input("Enter n Value"))
fact = 1
for i in range(1,n):
    i = i + 1
    fact = fact * i
```

print(fact)

Output:

Enter n Value : 6

720

- 6) Write a python program to print the fibanacci series using while loop

a = 0

b = 1

n = int(input("Enter the Value of n"))

print(a)

print(b)

while(n > 0):

c = a + b

print(c)

a = b

b = c

n = n - 1

Output:

Enter the value of n:

0

1

1

2

3

5

8

13

- 7) Write a python program to print prime numbers

for n in range(1, 20):

c = 0

for i in range(2, (n//2 + 1)):

if(n % i == 0):

c = c + 1

break

if(c == 0 and n != 1):

print(n)

Output :

2  
3  
5  
7  
11  
13  
17  
19