

AI Programming

[Day-1]

Program 1: Write a python program to find the addition of two numbers.

Solution:

```
a=12
b=14
sum=a+b
print("Sum of {0} and {1} is: {2}".format(a,b,sum))
```

Output:

```
Addition of two numbers
Sum of 12 and 14 is:26
```

Program 2: Write a python program to find the addition of two numbers. Here these two numbers must be taken as input from the user.
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Solution:

```
a=float(input("Enter a first number:"))
b=float(input("Enter a second number:"))
sum=a+b
print("Sum of {0} and {1} is: {2}".format(a,b,sum))
```

Output:

```
Enter a first number:12.3
Enter a second number:15.2
Sum of 12.3 and 15.2 is:27.5
```

Program 3: Write a python program to find the maximum number among three numbers. Here these numbers must be taken as input from the user.

Solution:

```
a=float(input("Enter the first number:"))
b=float(input("Enter the second number:"))
c=float(input("Enter the third number:"))
```

```
if a>b and a>c:
    max=a
elif b>c and b>a:
    max=b
else:
    max=c
print("The maximum number among three
is: {0}".format(max))
```

Output:

```
Enter the first number:2.3
Enter the second number:4.6
Enter the third number:6.4
The maximum number among three is:6.4
```

Program 4:

Write a python program to calculate the compound interest. Here principal amount, rate of interest and time must be taken as input from the user.

Solution:

```
p=float(input("Enter principal amount:"))
r=float(input("Enter rate of interest:"))
t=float(input("Enter time:"))
si=(p*r*t)/100
print("simple interest: {0}".format(si))
```

Output:

```
Enter principal amount:10
Enter rate of interest:2
Enter time:4
simple interest:0.8
```

Program 5: Write a python program to check whether a number entered by the user is even or odd.

Solution:

```
a=int(input("Enter a number:"))
if a%2==0:
    print("Even")
else:
```

```
print("Odd")
```

Output:

```
Enter a number:7
Odd
```

Program 6: Write a python program to check whether a year entered by user at run time is a leap year or not

Solution:

```
a=int(input("Enter year:"))
if a%4==0:
    print("{0} is a leap year".format(a))
else:
    print("{0} is not a leap year".format(a))
```

Output:

```
Enter year:2005
2005 is not a leap year
```

Program 7: Write a python program to check whether a number entered by the user is three digit or not.

Solution:

```
a=int(input("Enter a number:"))
if a>99 and a<1000:
    print("{0} is a three digit number".format(a))
else:
    print("{0} is not a three digit number".format(a))
```

Output:

```
Enter a number:333
333 is a three digit number
```

Program 8: Write a python program to check whether a character entered by a user is vowel or not.

Solution:

```
ch=input("Enter a character(in capital):")
```

```
if ch=="A" or ch=="E" or ch=="I" or ch=="O" or ch=="U":
    print("{} is a vowel".format(ch))
else:
    print("{} is a consonant".format(ch))
```

Output:

```
Enter a character(in capital):A
A is a vowel
```