

Programming Assignment_2

1. Write a Python program to convert kilometers to miles?

```
In [1]: print("Enter distance in kilometers?")
x=int(input())
print("Distance in miles is=",x*0.621371)
```

Enter distance in kilometers?

Distance in miles is= 9.320565

2. Write a Python program to convert Celsius to Fahrenheit?

```
In [9]: print("Enter temperature in celcius?")
x=float(input())
print("Temperature in fahrenheit is=",((x*9/5)+32))
```

Enter temperature in celcius?

-40

Temperature in fahrenheit is= -40.0

3. Write a Python program to display calendar?

```
In [12]: import calendar
yy=int(input("Enter any year"))
print(calendar.calendar(yy))
```

Enter any year2022

2022

January

Mo	Tu	We	Th	Fr	Sa	Su
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

February

Mo	Tu	We	Th	Fr	Sa	Su
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28					

March

Mo	Tu	We	Th	Fr	Sa	Su
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

April

Mo	Tu	We	Th	Fr	Sa	Su
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

May

Mo	Tu	We	Th	Fr	Sa	Su
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

June

Mo	Tu	We	Th	Fr	Sa	Su
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

July

Mo	Tu	We	Th	Fr	Sa	Su
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

August

Mo	Tu	We	Th	Fr	Sa	Su
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

September

Mo	Tu	We	Th	Fr	Sa	Su
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

October

Mo	Tu	We	Th	Fr	Sa	Su
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

November

Mo	Tu	We	Th	Fr	Sa	Su
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

December

Mo	Tu	We	Th	Fr	Sa	Su
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

4. Write a Python program to solve quadratic equation?

```
In [33]: import math
print("Enter the values of a, b & c \n")
a,b,c=[int(ele) for ele in input().split()]
dis=(b*b)-(4*a*c)
sqrt_dis=math.sqrt(abs(dis))
if(dis > 0):
    print("The equation has two real roots: {:.3f}, {:.3f}" .format((-b+sqrt_dis)/(2*a), (-b-sqrt_dis)/(2*a)))
elif (dis ==0):
    print("The equation has real and same roots: ",(-b/(2*a)))
else:
    print("The equation has two imaginary roots: {0:.3f}+{1:.3f}i, {0:.3f}-{1:.3f}i".format(-b/(2*a), sqrt_dis/(2*a)))
```

Enter the values of a, b & c

1 -2 1

The equation has real and same roots: 1.0

5. Write a Python program to swap two variables without temp variable?

```
In [2]: A=int(input("Enter the value of A: "))
        B=int(input("Enter the value of B: "))
        A=A+B
        B=A-B
        A=A-B
        print("After swapping, value of A={} and Value of B={}" .format(A,B))
```

After swapping, value of A=3 and Value of B=2

```
In [ ]:
```