**PYTHON Solved Assignments**

1. **BASICS**

**1.**

**"""**

**Write a program to print Hello world**

**"""**

**Code:**

**print("hello world")**

**Result:**

**hello world**

**2.**

**"""**

**Write a program to assign string "hello python" to a variable and print the variable**

**"""**

**Code:**

**my\_variable="hello python"**

**print(my\_variable)**

**print("hello world")**

**Result:**

**hello world**

**3.**

**"""**

**Write a program to define a variable a=10, b=20 and c is addition of a and b. Finally print value of c**

**"""**

**Code:**

**a=10**

**b=20**

**c=a+b**

**print("addition is",c)**

**Result:**

**Addition is 30**

**4.**

**Write a program to define a variable a=10 and b=20 and swap values of the variables. Output should display:**

**initial value of a is: <actual value of a> and initial value of b is: <actual value of b>**

**value of a after swap is: <actual value of a> and value of b after swap is: <actual value of b>**

**\*\*\*\* without using two variables"**

**a=10**

**b=20**

**print("a is ",a)**

**print("b is ",b)**

**c=a**

**a=b**

**b=c**

**"""**

**without using third variable "logic"**

**a=a+b**

**b=a-b**

**a=a-b**

**"""**

**print("After swap")**

**print("a is ",a)**

**print("b is ",b)**

**Result :**

**a is 10**

**b is 20**

**After swap**

**a is 20**

**b is 10**

**5.**

**"""**

**ask user to enter name and surname and concatenate name and surname, print name and surname in lower case if name starts with b other wise print name in title case**

**"""**

**name=input("enter name: ")**

**lastname=input("enter last name: ")**

**print("After concatenation ")**

**fullname=name+lastname**

**print("fullname:",fullname)**

**Result:**

**enter name: om**

**enter last name: mandhare**

**After concatenation**

**fullname: ommandhare**

**6.**

**"""**

**ask user to enter base and height of a triangle and calulate area of the triangle and print the same**

**"""**

**print("Area of triangle")**

**base=input("enter base")**

**base=float(base)**

**height=input("enter height")**

**height=float(height)**

**area=0.5\*base\*height**

**print("area of traingle: ",area)**

**Result:**

**Area of triangle**

**enter base5**

**enter height10**

**area of traingle: 25.0**

**7.**

**"""**

**ask user to enter radius and length of a cylinder and calculate volume of the cylinder and print the same.**

**"""**

**print("volume of cylinder")**

**radius=input("enter radius")**

**radius=float(radius)**

**length=input("enter length")**

**length=int(length)**

**volume=3.14\*radius\*radius\*length**

**print("volume of cylinder",volume)**

**Result:**

**volume of cylinder**

**enter radius 10**

**enter length 25**

**volume of cylinder 7850.0**

**8.**

**"""**

**ask user to enter distance in km and convert it to miles and print the output**

**"""**

**km=input("enter kilometers")**

**km=float(km)**

**miles=km\*0.62**

**print(km,"kilometers are", miles,"miles")**

**Result:**

**enter kilometers 10**

**10.0 kilometers are 6.2 miles**

**9.**

**"""**

**ask user to enter distance traveled and hrs required to travel and calculate speed**

**"""**

**distance=input("enter the distance")**

**distance=float(distance)**

**hours=input("enter the hours")**

**hours=float(hours)**

**speed=distance/hours**

**print("Your speed is ",speed)**

**Result:**

**enter the distance 100**

**enter the hours 2**

**Your speed is 50.0**

**10.**

**"""**

**ask user to enter three numbers, print a string as concatenated string (containing three numbers separated by underscore) as output**

**"""**

**a=input("enter a: ")**

**b=input("enter b: ")**

**c=input("enter c: ")**

**output=a+"\_"+b+"\_"+c**

**print("output", output)**

**Result:**

**enter a: 3**

**enter b: 5**

**enter c: 6**

**output 3\_5\_6**

**11.**

**"""**

**ask user to enter two numbers and print square of the two numbers**

**"""**

**num1=input("enter the first number")**

**num1=int(num1)**

**num2=input("enter the second number")**

**num2=int(num2)**

**sqr1=num1\*num1**

**sqr2=num2\*num2**

**print("Square of first number:",sqr1)**

**print("Square of second number:",sqr2)**

**Result:**

**enter the first number 5**

**enter the second number 7**

**Square of first number: 25**

**Square of second number: 49**