**Basic Python Program 1**

1. **Add two no.s**

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| **#given predefined value**  **n1=10**  **n2=23**  **sum=n1+n2**  **print("sum of no.s",sum)** |

1. **Print first 10 natural no.**

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| **#print first 10 natural no. use while loop**  **i=1**  **while i<=10 :**  **print(i)**  **i+=1**  **print first 10 natural no. use**  **#while loop oneline**  **i=1**  **while i<=10 :**  **print(i, end=' ')**  **i+=1** |

1. **Print first 10 natural no. in reverse order**

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| **#print first 10 natural no. use**  **#while loop in reverse order**  **i=10**  **while i>=1 :**  **print(i, end=' ')**  **i-=1** |

1. **Print first 10 natural no. using for loop**

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| **#print first 10 natural no. use**  **# for loop**  **for i in range(0, 10):**  **print(i)**  **i+=1** |

1. **Print first 10 natural no. using for loop in reversae order**

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| **#print first 10 natural no. use**  **# for loop in reverse order**  **for i in range(10, 0,-1):**  **print(i)**  **i+=1** |

1. **Python script to calculate area of a circle**

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| **# 5 .Python script to calculate area of a circle -pi\*\*r using simple way**  **r= 3**  **a=3.141\*\*r**  **print("area of circlec is : ", a)**  **# or**  **# 5 .Python script to calculate area of a circle -pi\*\*r using simple way using user as input**  **r= int(input("enter radius r: "))**  **a=3.14\*\*r**  **print("area of circlec is : ", a)**  **# 5. using import 5 .Python script to calculate area of a circle -pi\*\*r using simple way using user as input**  **from math import pi**  **r= int(input("enter radius r: "))**  **a=pi\*\*r**  **print("area of circlec is : ", a)**  **print(" Area Of a Circle = ", area)** |

1. **Find out the square root of the given no .**

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| **#Python script to calculate sqare root of any no using simple way**  **x =9**  **ans=x\*\*(0.5)**  **print("sqare root of any no. : ",ans)**  **#** **# .Python script to calculate sqare root of any no using simple way**  **x =900**  **ans=x\*\*(1/2)**  **print("sqare root of any no. : ",ans)**  **#** **Python script to calculate sqare root of any no using simple way using import math use sqrt() method**  **from math import sqrt**  **x= float(input("enter new no. :"))**  **ans=math.sqrt(x)**  **print("sqare root of any no. : ",ans)** |

1. **To check a number Even or Odd**

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| **#To check a number Even or Odd**  **#FIND EVEN REMAINDER must be zero otherwise it is odd no.**  **x=int(input("enter a no.:"))**  **if x%2==0:**  **print("givern x no.is even no .")**  **else:**  **print("given no.is odd no")**    **#Find Even Remainder- must be zero otherwise it is odd no.**  **x=float(input("enter a no.:"))**  **if x%2==0:**  **print("givern x no.is even no .")**  **else:**  **print("given no.is odd no")** |

1. **Swap two no.s**

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| **#Swap two no.s using third variable**  **Swap two no.s using 1. third variable temp**  **x=2**  **y=3**  **temp=x #this is third variable**  **print("the value of temp is :", temp)**    **x=y**  **print("the value of x is :", x)**  **y=temp**  **print("the valye of y is ," ,y)**  **x=2**  **y=3**    **x,y= y,x**  **print("the swap value x is ",x )**  **print("the swap value y is ",y )** |

1. **Find area of**

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| **#fiind area of rectangle : l\*b**  **l=2**  **h=2 # lengh is l and h is height**  **area\_rect= l\*h**  **print("area of rectangle is :",area\_rect)**  **# calculate area of square :s\*s side\*side**  **s=float(input("enter side"))**  **sqrt\_area =s\*s**  **print("The area of square is:", sqrt\_area)**  **#Find area of traingle : 1/2 \*l\*h**  **l=2**  **h=2 # lengh is l and h is height**  **area\_tr= 0.5\*l\*h**  **print("area of rectangle is :",area\_tr)** |

1. **Find the prime no .using for loop**

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| **# to check no .prime or not ? 11% 2 is not equal to zeo is prime no.**  **# prime no. starts from 2 :2,3,5,7,11**  **#using for loop**  **num=int(input("enter an no. to check"))**  **if num==1:**  **print("one is not prime no.")**  **if num >1:**  **for i in range(2,num):**  **if num % i ==0: #check condition**  **print("no.is not prime no.")**  **break**  **else:**  **print("no. is prime ")**  **else:**  **print("no. is prime ") #check clearly** |

**12 .** **is no. positve ,negative or zero**

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| **# is no. positve ,negative or zero**  **# greater than zero is positive no**  **#less than zero is negative no.**  **x=int(input("enter no."))**  **if x>0:**  **print("no. is positive no ")**  **elif x==0:**  **print("no. is zero")**  **else:**  **print("given no. is negative")** |

1. **Sort the no.**

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