**Assignment-3**

**Ques1.** x=5

print(x)

**Ques2.** x=3.14

print(x)

**Ques3.** Num=int("123")

print(Num)

**Ques4.** str\_num=str(42)

print(str\_num)

print(type(str\_num))

**Ques5.** number = float(input("Enter a number: "))

if number > 0 and number % 2 == 0:

    print ("number is both positive and even",number)

else:

    print("number is either not positive or not even",number)

**Ques6.** char = input("Enter a character: ")

if (char.isupper() or char.isdigit()):

  print("char is either a uppercase or a digit")

else:

  print("char is not a uppercase nor a digit")

)

**Ques9.** score = float(input("Enter the student's score: "))

if score >= 0 and score <= 100:

    print("Valid score.")

else:

    print("Invalid score.")

**Ques10.** age = int(input("Enter your age: "))

if 18 <= age <= 65:

    print("You are eligible for work.")

else:

    print("You are not eligible for work.")

**Ques11.** number = float(input("Enter a number: "))

number \*= 2

print("The doubled number is: ",number)

**Ques14.** x1 = float(input("Enter the first number: "))

x2 = float(input("Enter the second number: "))

x3 = float(input("Enter the third number: "))

sum\_numbers=x1+x2+x3

sum\_numbers /=3

print("the average number is :",sum\_numbers)

**Ques15.** number = float(input("Enter a number: "))

number \*\*= 2

print("The square number is: ",number)

**Ques16.** x=input("Enter the first string: ")

y=input("Enter the second string: ")

if len(x) == len(y):

    print("The strings have the same length.")

elif len(x) > len(y):

    print("The first string is longer than the second string.")

else:

    print("The second string is longer than the first string.")

**Ques17.** x=int(input("enter the year :"))

if (x%4==0 and x%100!=0) and (x%400==0):

 print(x,"year is a leap year")

else:

 print(x,"year is not a leap year")

**Ques18.** x=7/2

print(x)

**Ques19.** x=17%5

print(x)

**Ques20.** even\_numbers=0

for num in range(1,51):

  if num % 2==0:

    even\_numbers +=num

print("The sum of all even numbers between 1 and 50 is: ",even\_numbers)

**Ques21.** X1 = int(input("Enter the first number: "))

X2 = int(input("Enter the second number: "))

sum\_numbers=X1+X2

print("The sum of", X1, "and", X2, "is:", sum\_numbers)

**Ques25.** 10 / 3=3.33(float division)

In case of float division Python performs division and returns the exact float value.

10 // 3=3(Floor division)

In case of floor division Python divides and rounds down to the nearest whole number.

**Ques26.**

**= assign a value to a variable.**

**== Compare two values**