**Assignment No-4**

**Ques1.** age=25

print(age)

print(type(age))

**Ques2.** name="Sharmistha"

print(name)

print(type(name))

**Ques3.** fruit=["apple","banana","cherry"]

print(fruit)

**Ques4.** a=20

b=34

a,b=b,a

print("a:",a)

print("b:",b)

**Ques5.** price=19.99

print(price)

print(type(price))

**Ques6.** is\_student = True

print(is\_student)

**Ques7.** coordinates = (40.7128, -74.0060)

print(coordinates)

**Ques8.** student = {"name":"sharmistha","age":27}

print(student)

**Ques10.** numbers = [x for x in range(1, 11)]

print(numbers)

**Ques11.** is\_valid = False

is\_valid = not is\_valid

print(is\_valid)

**Ques12.** sentence="Rose is my favourite flower"

print(sentence)

**Ques13.** total\_sum = 0

for number in range(1, 101):

    total\_sum += number

print(total\_sum)

**Ques14.** grades = [56.6,78.2,45.3,90.5,99.2]

print(grades)

**Ques15.** greeting = "Hello, World!"

print(greeting)

**Ques16.** months = ("January", "February", "March", "April", "May", "June", "July", "August", "September", "October", "November", "December")

print(months)

**Ques17.** counter=67

counter+=1

print(counter)

**Ques18.** book={"title":"Bomkesh Bakshi","author":"Sharadindu B","year":1970}

print(book)

**Ques20.** colour=["red","Blue","green","white","black"]

print(colour)

**Ques21.** length = 34

width = 10

area = length \* width

print("the area of the rectangle is:",area)

**Ques22.** person={"name":"Sharmistha","surname":"Polley"}

print(person)

**Ques23.** tem\_cel=45

tem\_faren=(tem\_cel\*9/5)+32

print("the tempareture fahrenheit is :",tem\_faren)

**Ques24.** shopping\_list=["salt","cilliy","fish","chicken"]

new\_item="mutton"

shopping\_list.append(new\_item)

print(shopping\_list)

**Ques25.** is\_raining = True

is\_raining = False

print(is\_raining)

**Ques26.** integer\_input = int(input("Enter an integer: "))

float\_value = float(integer\_input)

print("the integer to float value is:",float\_value)

**Ques27.** age\_string=str(input("enter the age: "))

age=int(age\_string)

if age>=18:

  print("eligible for vote")

else:

  print("not eligible for vote")

**Ques28.** a=float(input("enter an number:"))

b=round(a)

print(b)

**Ques29.** x=str(input("enter a name"))

y=x.lower()

print(y)

**Ques30.** x=input("enter a string containing a number:")

y=int(x)

print("the interger value is:",y)

**Ques31.** base\_tri=input("enter the base of triangle:")

height\_tri=input("enter the height of triangle:")

a=float(base\_tri)

b=float(height\_tri)

area=0.5\*a\*b

print("the base of a triangle is: ",area)

**Ques33.**

**Assignment No-5**

**Ques1.** for i in range(1,11):

  print(i)

**Ques2.** n=int(input("enter a number: "))

total\_sum= 0

for i in range(1,1+n):

  total\_sum+=i

print("the all number from 1 to n is: ",total\_sum)

**Ques3.** n=int(input("enter a number: "))

total\_multiplication= 1

for i in range(1,1+n):

  total\_multiplication\*=i

print("the all number from 1 to n is: ",total\_multiplication)

**Ques5.** for i in range(-10, 0):

    print(i)

**Assignment No-6**

**Ques1.** numbers = [14, 22, 301, 40, 50]

total = sum(numbers)

print("The sum of all items in the list is:", total)

**Ques2.** numbers=[12,34,23,87,23,34]

largest\_number=max(numbers)

print("The largest number in the list is:",largest\_number)

**Ques3.** numbers=[12,34,23,87,23,34]

smallest\_number=min(numbers)

print("The smallest number in the list is:",smallest\_number)

**Ques4.** numbers=[12,34,23,87,23,34]

count\_number=len(numbers)

print("The count of the number in the list is:",count\_number)

**Ques5.** numbers=[1,2,2,3,3,5,6,7,7,7,8,9,9,10]

U\_N=list(set(numbers))

print("the list without duplicate is : ",U\_N)

**Ques6.** my\_list=[]

if not my\_list:

  print("the list is empty")

else:

  print("the list is not empty")

**Ques7.** a=(12,23,65,34,24,89,90)

tuple\_length=len(a)

print(tuple\_length)

**Ques8.** a=(12,23,65,34,24,89,90)

maximum\_number=max(a)

print(maximum\_number)

**Ques9.** a=(12,23,65,34,24,89,90)

minimum\_number=min(a)

print(minimum\_number)

**Ques10.** a=(12,23,65,34,24)

tuple\_length=len(a)

print(tuple\_length)

**Ques11.** my\_tupple=()

if not my\_tupple:

  print("the tupple is empty")

else:

  print("the tupple is not empty")

**Ques12.** my\_list=[12,23,54,35,13,78,55]

a=int(input("enter the element to check: "))

if a in my\_list:

  print("the element is in the list: ",a)

else:

  print("the element is not the list: ",a)

**Ques13.** my\_tupple=(12,23,54,35,13,78,55)

a=int(input("enter the element to check: "))

if a in my\_tupple:

  print("the element is in the tupple: ",a)

else:

  print("the element is not the tupple: ",a)

**Ques14.** my\_dic={12,23,54,35,13,78,55}

a=int(input("enter the element to check: "))

if a in my\_dic:

  print("the element is in the dictionary: ",a)

else:

  print("the element is not the dictionary: ",a)

**Ques15.** s=0

list=[12,34,56,76,89,50]

for i in list:

  if i%2==0:

    s=s+1

print("the numbers are even: ",s)

**Ques16.** n=0

list=[12,34,56,76,89,50]

for i in list:

  if i%3==0:

    n=n+1

print("the numbers are even: ",n)

**Ques23.** my\_list=[1,45,43,98,23,12,56]

print("original list: ",my\_list)

my\_list.reverse()

print("sorted list in reverse order: ",my\_list)

**Ques24.** my\_list=[1,45,43,98,23,12,56]

print("original list: ",my\_list)

my\_list.sort()

print("sorted list in asending order: ",my\_list)

**Ques25.** my\_list=[1,45,43,98,23,12,56]

print("original list: ",my\_list)

my\_list.sort(reverse=True)

print("sorted list in desending order: ",my\_list)