```
>>> abs(-9)
>>> hash("Sudhamshu B N")
1300149873
>>> v = memoryview(b'abcefg')
>>> v[1]
98
>>> set(["a", "b", "c"])
{'a', 'c', 'b'}
>>> mylist = [1,2,2]
>>> all(mylist)
True
>>> dict(x=5, y=0)
{'x': 5, 'y': 0}
>>> help(abs)
Help on built-in function abs in module builtins:
abs(x, /)
  Return the absolute value of the argument.
>>> min([1,2,34,56,7,8,90,0])
>>  mylist = [1,2,3]
>>> any(mylist)
True
>>> dir()
['__annotations__', '__builtins__', '__doc__', '__loader__', '__name__', '__package__',
'__spec__', 'a', 'foo']
>>> hex(367)
'0x16f'
>>> mylist = iter(["apple", "banana", "cherry"])
>>> next(mylist)
'apple'
>>> next(mylist)
```

```
'banana'
>>> next(mylist)
'Cherry'
>>> a = ("a", "b", "c", "d", "e", "f", "g", "h")
>>> a[slice(3)]
('a', 'b', 'c')
>>> ascii(['Pythön','Sudhamshu'])
"['Pyth\\xf6n', 'Sudhamshu']"
>>> divmod(21,14)
(1, 7)
>>> id("A")
55791168
>>> sorted([5, 2, 3, 1, 4])
[1, 2, 3, 4, 5]
>>> bin(999)
'0b1111100111'
>>> mylist = ['A', 'B', 'C', 'D']
>>> enumerate(mylist)
<enumerate object at 0x0329F288>
>>>input("Enter your name:")
Enter your name: Sudhamshu B N
>>> oct(10)
'0o12'
>>> staticmethod(max([1,2,3,4]))
<staticmethod object at 0x03409208>
>>> bool(1)
True
>>> bool(0)
False
>>> expression = input("Enter an expression in terms of variable a:")
Enter an expression in terms of variable a:a*a^7+3*a+4
>>> a = int(input("Enter the value of a:"))
```

```
Enter the value of a:5
>>> eval(expression)
3
>>> int("1234")
1234
>>>f = open("assignment.txt", "r")
>>>print(f.read())
This file is created for the purpose of assignment 4
>>> str(1234)
'1234'
>>> x = 10
>>> y = 'Hi'
>>> z = 'Hello'
>>> print(y)
Hi
>>> breakpoint()
--Return--
><stdin>(1)<module> () ->None
(Pdb)
(Pdb) print(z)
Hello
(Pdb)
Hello
>>> x = 9
>>> exec ('print(5*x)')
45
>>>isinstance(5, int)
True
>>>ord(a)
97
>>> sum([1,2,3,4,5,6,7,8])
>>> bytearray("Sudhamshu", 'utf-8')
bytearray(b'Sudhamshu')
```

```
>>> def myFunc(x):
... if x < 18:
     return False
   else:
     return True
>>> adults = filter(myFunc, ages)
>>> for x in adults:
... print(x)
18
24
32
>>> class myAge:
... age = 18
>>> class myObj(myAge):
... name = "Sudhamshu B N"
... age = myAge
>>> x = issubclass(myObj, myAge)
>>> x
True
>>> pow(4,2)
16
>>> class Parent:
... def __init__(self, txt):
     self.message = txt
   def printmessage(self):
     print(self.message)
>>> class Child(Parent):
... def __init__(self, txt):
    super().__init__(txt)
                                     # super()
>>> x = Child("Hello, Sudhamshu here!")
>>> x.printmessage()
Hello, Sudhamshu here!
```

```
>>> bytes(4)
b'\x00\x00\x00\x00'
>>> float(1)
1.0
>>> iter(['a','e','i','o','u'])
<list_iterator object at 0x036E9880>
>>>print("Hello, World!")
Hello, World!
>>> num=25
>>> callable(num)
False
>>> txt = "Student studies at {DSCE_in:.2f} Year !"
>>> print(txt.format(DSCE_in = 3))
Student studies at 3.00 Year!
>>> len([1,2,3,4,5,6])
6
>>> class person:
    def __init__(self):
       self.__name="
     def setname(self, name):
       print('setname() called')
       self.__name=name
...
     def getname(self):
       print('getname() called')
       return self. name
     name=property(getname, setname)
>>> a = 5 + 7j
>>> type(a)
<class 'complex'>
>>> chr(101)
'e'
>>  list((1,2,3,4,5))
[1, 2, 3, 4, 5]
```

```
>>> for i in range(3):
     print("**")
...
>>> mylist = ['apple', 'banana', 'cherry']
>>> x = frozenset(mylist)
>>> x
frozenset({'apple', 'banana', 'cherry'})
>>> class Person:
     name="Sudhamshu"
     age="19"
     country="India"
>>> vars(Person)
mappingproxy({'__module__': '__main__', 'name': 'Sudhamshu', 'age': '19', 'country': 'India',
'__dict__': <attribute '__dict__' of 'Person' objects>, '__weakref__': <attribute '__weakref__' of
'Person' objects>, '__doc__': None})
>>> def localsPresent():
     present = True
     print(present)
     locals()['present'] = False;
     print(present)
>>> localsPresent()
True
True
>>> x='foo'
>>> repr(x)
"foo"
>>> roll_no = [4, 1, 3, 2]
>>> marks = [40, 50, 60, 70]
>>> name=["Sudhamshu","Nikhil","Yogesh","Ramesh"]
>>> zip(name, roll no, marks)
<zip object at 0x036EAD88>
```

```
>>> x = compile('print(55)', 'test', 'eval')
>>> exec(x)
55
>>> age = 23
>>> globals()['age'] = 25
>>> print('The age is:', age)
The age is: 25
>>> def myfunc(n):
... return len(n)
>>> x = map(myfunc, ('apple', 'banana', 'cherry'))
>>> x
<map object at 0x036E9A30>
>>> a=["a","b","c"]
>>> b=reversed(a)
>>> for i in b:
    print(i)
...
...
С
b
а
>>> import os
>>> os.path
                                              'ntpath'
<module
                                                                                           from
'C:\\Users\\sudha\\AppData\\Local\\Programs\\Python\\Python38-32\\lib\\ntpath.py'>
>>> os.name
'nt'
>>> complex(9,5)
(9+5j)
>>> max([1,2,3,4,5,6,7,8])
8
>>> round(5.6)
6
>>> round(5.3)
```