Assignment No.1

Que.1 Declare different variables for different types of data's

Variable

```
a = 10
print(type(a))
<class 'int'>
b = 10.6
print(type(b))
<class 'float'>
c = "Saurabh"
print(type(c))
<class 'str'>
```

Que.2 By the help of format specifiers access the variables

```
var1 = "Saurabh Palve"
var2 = 9373299385
var3 = "MIT Academy of Engineering"
var4 = 8.0
print("My name is %s and My mobile number is %d and I have completed
my graduation in %s and I got CGPA as %f"%(var1,var2,var3,var4))
```

My name is Saurabh Palve and My mobile number is 9373299385 and I have completed my graduation in MIT Academy of Engineering and I got CGPA as 8.000000

Que.3 How to take input from the user without directly assigning values to the variable

```
a = int(input())
b = str(input())
c = float(input())
```

```
12
"Pratik"
45.6
```

Que.4 what is the alternate of Anaconda Jupyter if your machine has low computational power

Ans:Python,pycharm,pip,Jupiter and pandas are the most popular alternatives and competitors to Anaconda

Que.5 In python is it necessary to declare what type of variable it is? if no? why?

Ans: No, Because Python is so highly dynamic language it's simply impossible for the Python compiler to figure out the type of anything without executing the program.

Que.6 Declare a variable and store an integer value in it and in the second statement increment that value by 10

```
a = int(input())
print(a+10)
52
62
```

Que.7 follow the pseudo code write the correct output

Num = 10

Num + 10

Num

```
Num = 10
Num = Num+10
Num
```

Que.8: Declear three variables and store three different types of data (name(string type),id(integer type),#cgpa(float type)) and print a statement "Hello my name is and my id is and my cgpa is " access the values using Format Specifiers

```
name = "Saurabh"
id = int(25)
cgpa = float(8.5)
print("Hello my name is %s and my id is %d and my cgpa is %f"%
(name,id,cgpa))
Hello my name is Saurabh and my id is 25 and my cgpa is 8.500000
```

Sets

u

```
Que 1 Write a Python program to create a set.
set1 = {"saurabh", "rohit", "pratik", "tushar"}
```

```
print(set1)
{'pratik', 'rohit', 'saurabh', 'tushar'}
```

Que.2 Write a Python program to iteration over sets.

```
# Creating set using string
set_1 = set("saurabhpalve")
# For iterating using loop
for val in set_1:
        print(val)

b
p
s
l
v
r
e
a
h
```

```
Que.3 Write a Python program to add a member(s) in a set.
set_2 = {"Apple", "Mango", "Banana", "Orange", "Pineapple", "Strawberry"}
print(set 2)
{'Apple', 'Banana', 'Mango', 'Orange', 'Pineapple', 'Strawberry'}
set 2.add("Ramphal")
print(set 2)
{'Apple', 'Banana', 'Mango', 'Orange', 'Pineapple', 'Ramphal',
'Strawberry'}
Que.4 Write a Python program to remove item(s) from a given set.
set 3 = {"Apple", "Mango", "Banana", "Orange", "Pineapple", "Strawberry"}
set 3.remove("Banana")
print(set 3)
{'Apple', 'Mango', 'Orange', 'Pineapple', 'Strawberry'}
Que.5 Write a Python program to remove an item from a set if it is
present in the set
s = {"Rohit", "Ankita", "Pratik", "Karan", "Saurabh", "Virendra", "Shubham"}
s.remove("Ankita")
print(s)
{'Saurabh', 'Rohit', 'Pratik', 'Virendra', 'Shubham', 'Karan'}
Que. 6 Write a Python program to find the maximum and the
minimum value in a set.
s = \{25, 56, 89, 78, 86, 47, 63, 56\}
print(min(s))
25
print(max(s))
89
Que. 7: Write a Python program to find the length of a set.
s = \{25, 56, 89, 78, 86, 47, 63, 56\}
```

```
print(len(s))
7
```

Que. 8 Write a Python program to check if a given value is present in a set or not Dictionary.

```
number = {25,36,56,89,78,42,10,30}
print("The numbers are: ",number,"/n")
The numbers are: {36, 42, 10, 78, 30, 56, 89, 25} /n
print(78 in number)
True
print(50 in number)
False
```