Primitive Data Types questions

1. Create a variable x and assign the value 10 to it. Print x

```
x=10
print(x)
OUTPUT:
```

X = 10

2. Create two variables: a = 5, b = 3.2. Print their sum and check the type of each.

OUTPUT:

7.2 <class 'int'> <class 'float'>

3. Store your name in a variable my_name and print it.

```
my_name="sridevi"
print(my_name)
```

OUTPUT:

SriDevi

4. Create a variable is_student **and assign it the value** True. **Print the variable and its type.**

```
is_student=True
print(type(is_student))
```

```
OUTPUT:
<class 'bool'>
5. Convert the integer 100 into a string and print the result with its type?
a=100
b=str(a)
print(type(b))
OUTPUT:
100
<class 'str'>
6. Take a string "45" and convert it into an integer. Add 5 and print the
result.
a="45"
b=5
print(int(45))
print(type(int(a)))
i=int(a)
sum=i+b
print(sum)
OUTPUT:
45
<class 'int'>
50
7. Create a variable temperature and assign a float value. Convert it to
integer and print.
temperature = 7.5
```

```
converted_temp = int(temperature)
print(converted_temp)
OUTPUT:
7
8. Write a program to input your age and print a message like: "You are 25
years old."
age=int(input("enter your age-----"))
print("you are" ,age ,"years old")
OUTPUT:
enter your age ---- 25
you are 25 years old
9. Concatenate two strings: "Hello" and "Python" and print the result.
str1="Hello"
str2="python"
print(str1+str2)
OUTPUT:
Hellopython
10. Check and print the type of each: 23, "hello", 3.14, True
list=[23, "hello", 3.14, True]
for item in list:
  print(f"{item} is a type of{type(item)}")
OUTPUT:
23 is a type of<class 'int'>
hello is a type of<class 'str'>
```

3.14 is a type of<class 'float'> True is a type of<class 'bool'> **Non-Primitive Data Types** 11. Create a list of 5 fruits and print the list. list=["apple","banana","orange","mango","grapes"] print(list) **OUTPUT:** ['apple', 'banana', 'orange', 'mango', 'grapes'] 12. Create a tuple of 3 numbers and print the second item. a=(13,5,22)print("second item is",a[1]) **OUTPUT:** second item is 5. 13. Create a list of 5 numbers. Replace the third number with a new value and print the list. a=[12,1,22,24,11] a[1]=2print(a) **OUTPUT:** [12, 1, 22, 24, 11] 14. Create a dictionary with keys: name, age, city. Assign your own values and print the dictionary.

data={

```
"name":"sridevi",
  "age":21,
  "city":"poduru"
}
print(data)
OUTPUT:
{'name': 'sridevi', 'age': 21, 'city': 'poduru'}
15. From the above dictionary, print only the value of the city.
data={
  "name":"sridevi",
  "age":21,
  "city":"poduru"
print(data["city"])
OUTPUT:
Poduru
16. Add a new key "gender" to the existing dictionary and print it.
data={
  "name":"sridevi",
  "age":21,
  "city":"Poduru"
data["gender"]="Female"
print(data)
OUTPUT:
```

```
{'name': 'sridevi', 'age': 21, 'city': 'Poduru', 'gender': 'Female'}
17. Create a list of numbers and print only the even numbers using a loop.
list=[1,2,3,4,5,6,7,8,9]
for i in list:
  if i\%2 == 0:
   print(i)
OUTPUT:
2
4
6
8
18. Convert a tuple (1, 2, 3) to a list and add a new item to it.
a=(1,2,3)
b=list(a)
b.append(4)
print(list(b))
OUTPUT:
[1, 2, 3, 4]
19. Create two sets: {1,2,3} and {3,4,5}. Find and print their intersection.
a=\{1,2,3\}
b={3,4,5}
intersection=a&b
print(intersection)
OUTPUT:
{3}
```

20. Create a dictionary of 3 students and their marks. Print each student's name with their marks.

```
data=[
     {
        "stu_name": "sai",
        "stu_marks": 90,
        "stu_grade": "A+"
     },
        "stu_name": "satya",
        "stu_marks": 91,
        "stu_grade": "A+"
     },
        "stu_name": "sridevi",
        "stu_marks": 92,
        "stu_grade": "A+"
   for student in data:
     print(f"{student['stu_name']} got {student['stu_marks']} marks")
OUTPUT:
   Sai got 90 marks.
```

satya got 91 marks.
sridevi got 92 marks.