LAB REPORT # 2&3

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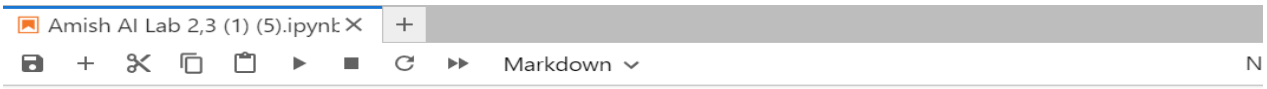
SUBJECT: PROGRAMMING OF AI

SECTION: AI BLUE F22

PROGRAM: (AI)

TASK:

1. Print at least 5 types of data type



LAB 2,3

TASK 1:

1. Print at least 5 types of data type

[14]:
```
#integer example.
#initionalizing the integer values.
number_1=int(100)
number_2=int(200)
number_3=int(300)
number_4=int(400)
number_5=int(500)
print(number_1, number_2, number_3, number_4, number_5)

#displaying the integer data type.
print(type(number_1),type(number_2),type(number_3),type(number_4), type(number_4))
```

```
100 200 300 400 500
<class 'int'> <class 'int'> <class 'int'> <class 'int'> <class 'int'>
```

[13]:
```
#float example.
abc=112.2
efg=232.4
hij=152.2
klm=182.5
nop=192.3

#displaying the float datatype.
print(abc, type(abc), efg, type(efg), hij, type(hij), klm, type(klm), nop, type(nop))
```

```
112.2 <class 'float'> 232.4 <class 'float'> 152.2 <class 'float'> 182.5 <class 'float'> 192.3 <class 'float'>
```

[11]:
```
# complex example
a= 5j
b= 6j
c= 7j
d= 8j
e= 9j

#displaying the float datatype.
print(a, type(a))
print(b, type(b))
print(c, type(c))
print(d, type(d))
print(e, type(e))
```

```
5j <class 'complex'>
6j <class 'complex'>
7j <class 'complex'>
8j <class 'complex'>
9j <class 'complex'>
```

2. Write example of type conversion for each (minimum 3)

Amish AI Lab 2,3 (1) (5).ipynb

Markdown

2. Write example of type conversion for each (minimum 3)

[19]:
```
# example of type conversion
#initionalizing the tadatypes.
amish= 5  #integer
nohman= 9.5  #float
spark= 7j   #complex

#converting the data type.
a=float(amish)
b=int(nohman)
c=complex(spark)

#printing
print(a)
print(b)
print(c)

#displaying the converted data type.
print(type(a))
print(type(b))
print(type(c))
```

```
5.0
9
7j
<class 'float'>
<class 'int'>
<class 'complex'>
```

Amish AI Lab 2,3 (1) (5).ipynb

Markdown Notebook

3. Assign multiple strings to single variable with your name , registration number, program , semester etc

[20]:
```
#Assign multiple strings to single variable
a="""
name= Amish
reg no= B22F1253AI092
program= AI
"""
print(a)
```

```
name= Amish
reg no= B22F1253AI092
program= AI
```

Amish AI Lab 2,3 (1) (5).ipynb

Markdown

4. Write Your country name and access the last 3 characters

[22]:
```
#assigning the country name to variable
abc= "pakistan"

#access the last 3 characters.
last_three_chars=abc[-3:]
print(abc)
print(last_three_chars)
```

```
pakistan
tan
```

Amish AI Lab 2,3 (1) (5).ipynb

Markdown

5. Write code and observe using len() function it count space or not.

[23]:
```
#assigning string to variable
spark="kya baat hai"

# observe using len() function and printing
print(len(spark))
```

```
12
```

Amish AI Lab 2,3 (1) (5).ipynb

Markdown

6. Write code to access the 2nd and 3rd character of your name using negative indexes.

[25]:
```
#initionalizing name
name="AMISH"

#access the 2nd and 3rd character
second_char= name[-2]
third_char= name[-3]
print(second_char, third_char)
```

```
S I
```

Amish AI Lab 2,3 (1) (5).ipynb

Markdown | Notebook | Python (Pyodide)

7. Write python code in which you pass index number to format() function and arguments must be 4 and same code without indexes.

[2]:
```
index_format_str = "The {0} arguments are: {1}, {2}, {3}, and {4}"

# Arguments to pass
arg_1 = "first"
arg_2 = "second"
arg_3 = "third"
arg_4 = "fourth"

# Passing arguments with specifying index numbers
formatted_str_indexed = index_format_str.format("index", arg_1, arg_2, arg_3, arg_4)

print("Indexed format:", formatted_str_indexed)
```

```
Indexed format: The index arguments are: first, second, third, and fourth
```

Amish AI Lab 2,3 (1) (5).ipynb

Markdown

8. Take input from user and than display it like "John age is: age"

[27]:
```
# Using indexed format function
index_format_str = "The {0} arguments are: {1}, {2}, {3}, and {4}"

# Arguments to pass
arg_1 = "first"
arg_2 = "second"
arg_3 = "third"
arg_4 = "fourth"

# Passing index numbers to format function
formatted_str_indexed = index_format_str.format(4, arg_1, arg_2, arg_3, arg_4)

print("Indexed format:", formatted_str_indexed)
```

```
Indexed format: The 4 arguments are: first, second, third, and fourth
```