

Untitled-1

```
13 # %% [markdown]
14 # Muhammad Abdullah
15
16 # B22F0577AI054
17
18 # AI BLUE(2022)
19
20 # Submitted To: Mam Anila Habib
21
22 # Program: Artificial Intelligence
23
24 # Programming For Artificial Intelligence Lab
25
26
27 # %% [markdown]
28 # Question:1
29 #
30 # Stored and Reused Steps:
31
32 # %%
33 def thing():
34     print('Hello')
35     print('Fun')
36 thing()
37 print('Zip')
38
39 # %% [markdown]
40 # Question:2
41 #
42 # Type conversions
43
44 # %%
45 print(float(99) / 100)
46 i= 42
47 type(i)
48 print(i)
49 f = float(i)
50 print(f)
51 type(f)
52 print(1 +2 * float(3) / 4-5)
53
54
55 # %% [markdown]
56 # Question:3
57 #
58 # Function Definition
59
60 # %%
61 def thing():
62     print('Hello')
63     print('Fun')
64 thing()
65 print('Zip')
```

```
66 thing()
67
68 # %% [markdown]
69 # Question:4
70 #
71 # Min and Max Function:
72
73 # %%
74 big= max('Hello world')
75 big= max('Hello world')
76 print(big)
77 tiny= min('Hello world')
78 print(tiny)
79 big= max('Hello world')
80 print(big)
81
82 # %% [markdown]
83 # Question:5
84 #
85 # String Conversions:
86
87 # %%
88 sval = '123'
89 type(sval)
90 ival = int(sval)
91 type(ival)
92 print(ival + 1)
93 nsv = 'hello bob'
94
95
96 # %% [markdown]
97 # Question:6
98 #
99 # Built In Functions
100
101 # %%
102 x = 5
103 print('Hello')
104 def print_lyrics():
105     print("I'm a lumberjack, and I'm okay.")
106     print('I sleep all night and I work all day.')
107     print('Yo')
108     print_lyrics()
109     x = x +2
110     print(x)
111
112
113
114 # %% [markdown]
115 # Question:7
116 #
117 # Arguments And Parameters
118
119 # %%
120 def greet(lang):
121     if lang == 'es':
```

```
122         print('Ali')
123     elif lang == 'fr':
124         print('Abdullah')
125     else:
126         print('Ahmed')
127 greet('es')
128
129 # %% [markdown]
130 # Question:8
131 #
132 # Return Functions
133
134 # %%
135 def greet():
136     return "Hello"
137 print(greet(), "Ahmed")
138 print(greet(), "Qazi")
139
140 def greet(lang):
141     if lang == 'es':
142         return 'Hello'
143     elif lang == 'friend':
144         return 'Bonjour'
145     else:
146         return 'Hello'
147
148 print(greet('en'), 'Ahmed')
149
150 print(greet('es'), 'Qazi')
151
152 print(greet('fr'), 'Michael')
153
154
155 # %% [markdown]
156 # Question:9
157 #
158 # Multiple Parameter/Arguments Function
159
160 # %%
161 def addtwo(a, b):
162     added = a + b
163     return added
164 x = addtwo(3, 5)
165 print(x)
166
167 # %% [markdown]
168 # Question:10
169 #
170 # Rewrite your pay computation with time-and-a
171 # half for overtime and create a function called
172 # computepaywhich takes two parameters ( hours
173 # and rate).
174
175 # %%
176 def computepay(hours, rate):
177     if hours <= 40:
```

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178         pay = hours * rate
179     else:
180         pay = 40 * rate + (hours - 40) * (rate * 1.5)
181     return pay
182
183 hours = float(input("Enter Hours: "))
184 rate = float(input("Enter Rate: "))
185
186 pay = computepay(hours, rate)
187 print("Pay:", pay)
```