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Compulsory Task 1

Follow these steps:

- Create a new Python file in this folder called **hello_world.py**
- Please first provide pseudo code as comments to this problem.
- Now, inside this file, write Python code to take in a user's name using *input()* and then print out the name.
- Also, take in a user's age using the same method and print out their age.
- Finally, print the string "Hello World!" on a new line.

##Pseudo code

#ask user to input name

#store input name into variable "user_name"

#ask user to input age

#store input age into variable "user_age"

#print user_name

#print user_age

#print HelloWorld!

```
In [71]: user_name = input("Enter your name: ")
user_age = input("Enter your age: ")
print("\nName:", user_name)
print("Age", user_age)
print("HelloWorld!")
```

```
Enter your name: Hemant
Enter your age: 23
```

```
Name: Hemant
Age 23
HelloWorld!
```

```
In [75]: user_name = input("Enter your name: ")
user_age = input("Enter your age: ")

print("\nName:", user_name)
print("Age", user_age)
print("\nHelloWorld!")
```

```
Enter your name: Hemant
Enter your age: 23
```

```
Name: Hemant
Age 23
```

```
HelloWorld!
```

Compulsory Task 2

Follow these steps:

- Create a new Python file in your folder called **details.py**
- Please first provide pseudo code as comments to this problem.
- Use an *input()* command to get the following information from the user.
 - Name
 - Age
 - House number
 - Street name
- Print out a single sentence containing all the details of the user.
- For example:
 - This is John Smith. He. He is 28 years old and lives at house number 42 on Hamilton Street.

```
In [79]: #ask user to input name
#store user name in varibale "user_name"
user_name = input("Enter your name: ")

#ask user to input age
#store user age in variable "user_age"
user_age = input("Enter your age: ")

#ask user to input house number
#store user age in variable "user_house_number"
user_house_number = input("Enter your house number: ")

#ask user to input street name
#store user street name in variable "user_street_name"
user_street_name = input("Enter your street name: ")

#print out a single sentence containg all details of the user
print(f"\nThis is {user_name}. He is {user_age} years old and lives at house number {user_house_number} on {user_street_name}")
```

```
Enter your name: Hemant
Enter your age: 23
Enter your house number: 8
Enter your street name: Cecil
```

```
This is Hemant. He is 23 years old and lives at house number 8 on Cecil street
```


Compulsory Task 3

Follow these steps:

- Create a new Python file in this folder called **conversion.py**
- Please first provide pseudo code as comments to this problem.
- Declare the following variables:
 - *num1* = 99.23
 - *num2* = 23
 - *num3* = 150
 - *string1* = "100"
- Convert them as follows:
 - *num1* into an integer
 - *num2* into a float
 - *num3* into a string
 - *string1* into an integer
- Print out all the variables on separate lines

If you are having any difficulties, please feel free to contact our specialist team

In [20]: *#declaring variables*

```
num1 = 99.23 #num1 variable contain float data type value of 99.23
num2 = 23 #num2 varibale contain int data type value of 23
num3 = 150 #num3 variable also contain int data type value of 150
string1 = "100" #string1 contain string value of "100", number has made into a string putting quotation marks

#Using int() to convert a Float to Integer
num1_to_int = int(num1)
print("Float is converted to Integer: ",num1_to_int)

#Using float() to convert a Int to Float
num2_to_float = float(num2)
print("\nInteger is converted to Float: ",num2_to_float)

#using str() to convert a Int to String
num3_to_str = str(num3)
print("\nInteger is converted to String:", num3_to_str)

#using int() to convert a String to Integet
string1_to_int = int(string1)
print("\nString is converted to Integer:", string1_to_int)
```

Float is converted to Integer: 99

Integer is converted to Float: 23.0

Integer is converted to String: 150

String is converted to Integer: 100