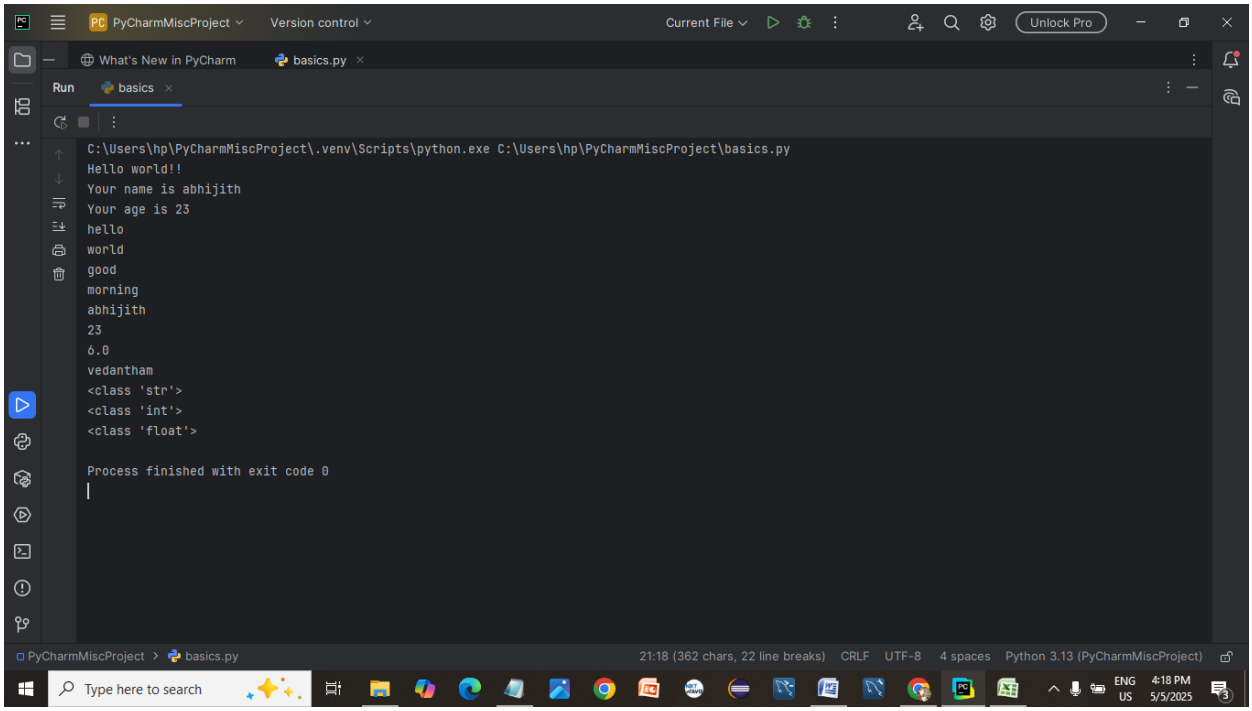
Hands-On:

```python
#exercise1
print("Hello world!!")
#exercise2
name="abhijith"
age=23
print("Your name is "+name)
print("Your age is "+str(age))
#exercise3
print("hello\nworld\ngood\nmorning")
#exercise4
name="abhijith"
age=23
height=6.0
print(name)
print(age)
print(height)
#exercise5
name="vedantham"
print(name)
#exercise6
print(type(name))
print(type(age))
print(type(height))
```

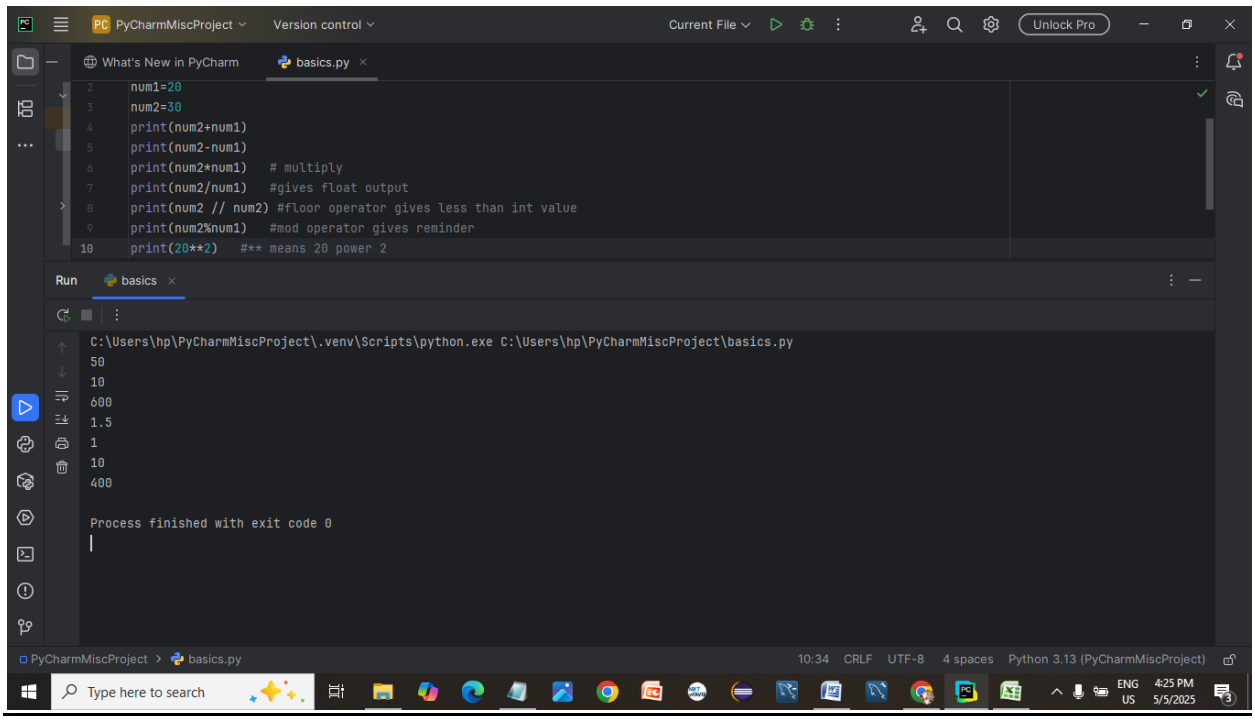
Output for 1-6 exercises:



Exercise 7,8,9,10)

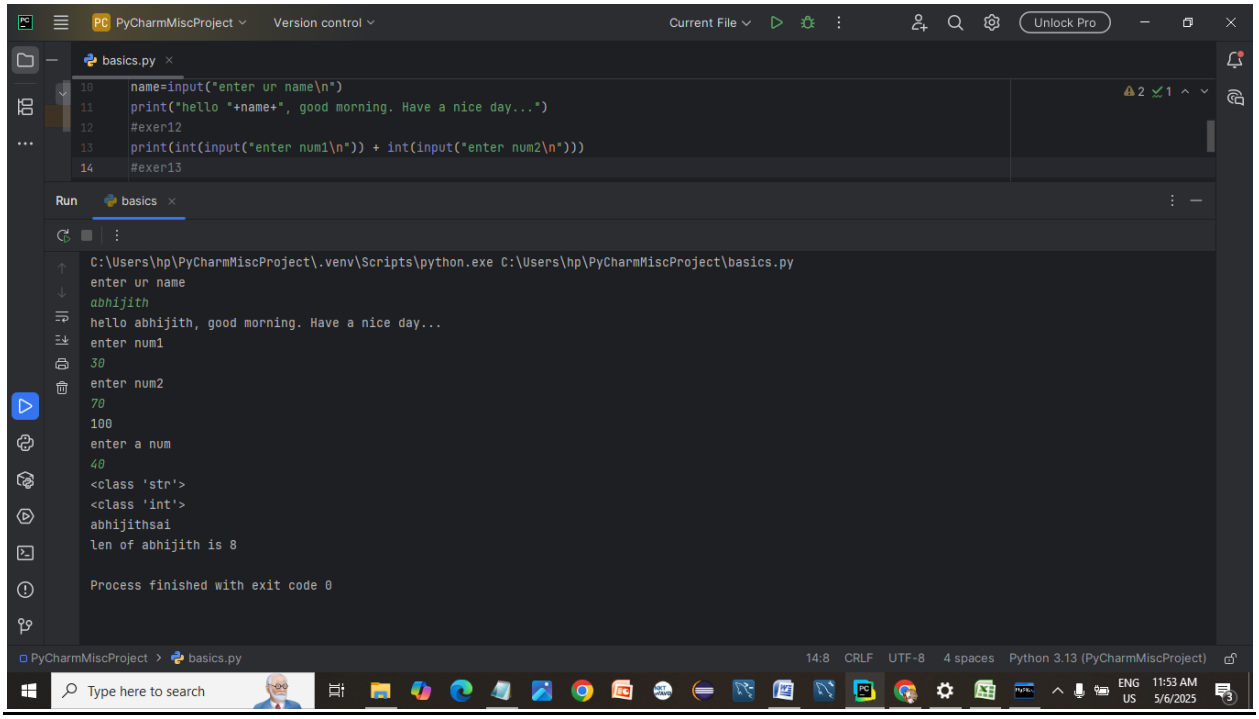
```python
#exercise7,8,9,10
num1=20
num2=30
print(num2+num1)
print(num2-num1)
print(num2*num1)    # multiply
print(num2/num1)    #gives float output
print(num2 // num2) #floor operator gives less than int value
print(num2%num1)    #mod operator gives reminder
print(20**2)    #** means 20 power 2
```

Outputs for 7,8,9,10:



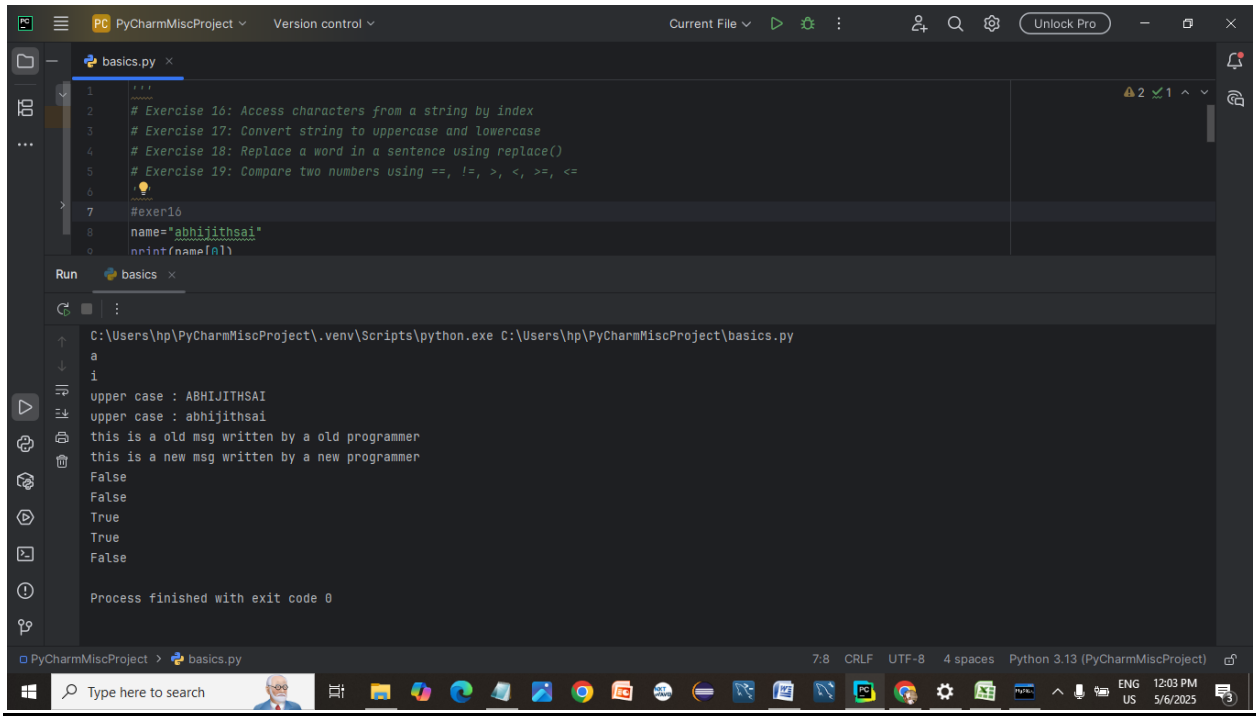
```
'''
# Exercise 11: Take user input for name and greet them
# Exercise 12: Ask the user for two numbers and print their sum
# Exercise 13: Convert input string to integer using int()
# Exercise 14: Concatenate two strings
# Exercise 15: Print the length of a string using len()
'''

#exer11
name=input("enter ur name\n")
print("hello "+name+", good morning. Have a nice day...")
#exer12
print(int(input("enter num1\n")) + int(input("enter num2\n")))
#exer13
num=input("enter a num\n")
print(type(num))
num=int(num)
print(type(num))
#exer14
str1="abhijith"
str2="sai"
print(str1+str2)
#exer15
print("len of "+str1 +" is "+ str(len(str1)))
```

Output)

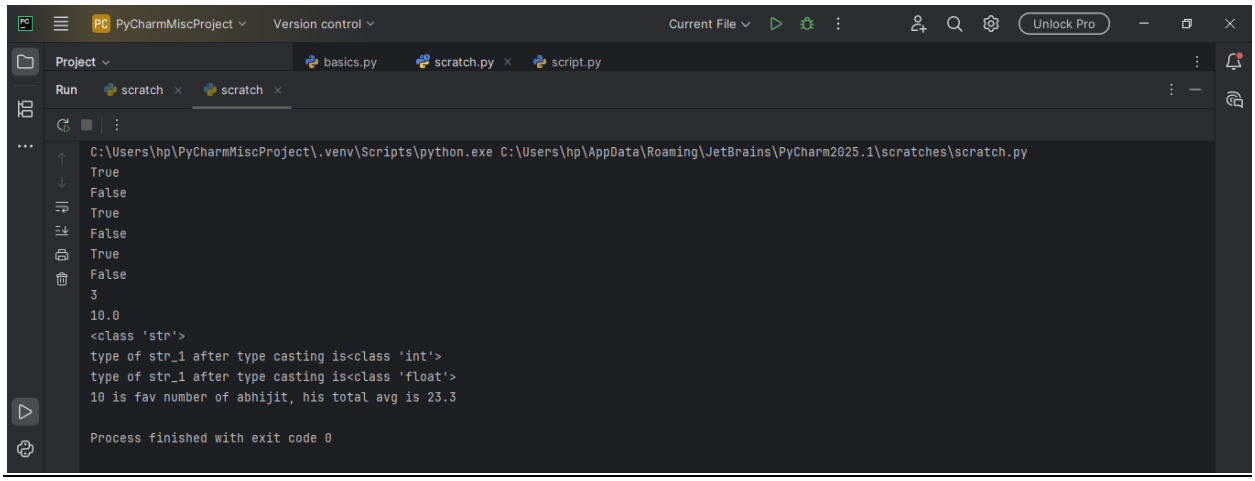


```
'''
# Exercise 16: Access characters from a string by index
# Exercise 17: Convert string to uppercase and lowercase
# Exercise 18: Replace a word in a sentence using replace()
# Exercise 19: Compare two numbers using ==, !=, >, <, >=, <=
'''
#exer16
name="abhijithsai"
print(name[0])
print(name[5])
#exer17
print("upper case : "+ name.upper())
print("upper case : "+ name.lower())
#exer18
disc = "this is a old msg written by a old programmer"
print(disc)
print(disc.replace("old","new"))
#exer19
num1=10
num2=20
print(num1==num2)
print(num1>num2)
print(num1<num2)
print(num1<=num2)
print(num1>=num2)
```

Output)



Exercise 20-24)

```
# Exercise 20: Combine two conditions using and / or
# Exercise 21: Use bool() to convert values to True or False
# Exercise 22: Convert float to int and vice versa
# Exercise 23: Convert string to float and int (if possible)
# Exercise 24: Combine different data types using str()'''

#exer20
num=10
print((num>0) and (num%2==0))
num=-10
print((num>0) and (num%2==0))
num=10
print((num>0) or (num%2==0))
num=-11
print((num>0) or (num%2==0))
#exer21
Tcheck=bool(True)
Fcheck=bool(False)
print(Tcheck)
print(Fcheck)
#exer22
num1=10
num2=3.1427
print(int(num2))
print(float(num1))
#exer23
str_1="13"
print(type(str_1))
print("type of str_1 after type casting is"+str(type(int(str_1))))
print("type of str_1 after type casting is"+str(type(float(str_1))))
#exer24
num1=10
num2=23.3
name="abhijit"
print(str(num1)+" is fav number of " + name+", his total avg is "+str(num2))
```

Output