

Problem:

Write a program that consists of both a main function and a user defined function. The program will convert miles to kilometers or kilometers to miles. The main function will prompt the user to input both a distance number and a choice of whether that number is in miles to be converted to kilometers or kilometers to be converted to miles. The main function will check for the validity of the input choice value. The main function **MUST** call a **value returning function** to convert the distance either to miles or kilometers. You must create a function to do the conversion. **You will create only ONE function to do both conversions.** The function should take two parameters: 1. Distance, 2. Choice. The function should return the converted distance to the calling function. After the conversion function call returns, the main function will then print out the converted result. You may use the following values for conversions.

1 kilometer = .621 miles 1 mile = 1.61 kilometers

Sample Run:

```
1. Convert miles to kilometers
2. Convert kilometers to miles
3. Quit
```

```
Your choice? 1
```

```
Please input the miles to be converted: 120
```

```
120 miles = 193.2 kilometers
```

```
1. Convert miles to kilometers
2. Convert kilometers to miles
3. Quit
```

```
Your choice? 2
```

```
Please input the kilometers to be converted: 235
```

```
235 kilometers = 145.935 miles
```

```
1. Convert miles to kilometers
2. Convert kilometers to miles
3. Quit
```

```
Your choice? 5
```

```
Invalid input!
```

```
1. Convert miles to kilometers
2. Convert kilometers to miles
3. Quit
```

```
Your choice? 3
```

```
The program is finishing. Thank you for using the program!
```