University of Mohamed khider

Faculty of Economics, Business and Management Sciences

Subject: Fundamentals of Programming with Python

Level: First Year – Common Core

Practical Work – Solutions

Exercise 1

```
# Program to ask the user for their name and display a welcome
message

name = input("Enter your name: ")
print("Welcome", name)
```

Exercise 2

1-
```
# Program to add two integers

a = int(input("Enter the first integer: "))
b = int(input("Enter the second integer: "))

sum_result = a + b
print("The sum is:", sum_result)
```

2-
```
# Program to add two real numbers

a = float(input("Enter the first number: "))
b = float(input("Enter the second number: "))

sum_result = a + b
print("The sum is:", sum_result)
```

Exercise 3

```
# Program to calculate the average of three integers

a = int(input("Enter the first integer: "))
b = int(input("Enter the second integer: "))
c = int(input("Enter the third integer: "))

average = (a + b + c) / 3
print("The average is:", average)
```

Exercise 4

```python
# Program to calculate the result and remainder of a division

a = int(input("Enter the first integer: "))
b = int(input("Enter the second integer: "))

quotient = a // b    # Integer division
remainder = a % b    # Remainder of division

print("The result of the division is:", quotient)
print("The remainder is:", remainder)
```

Exercise 5

```python
# Program to calculate the perimeter and area of a circle

import math

r = float(input("Enter the radius of the circle: "))

perimeter = 2 * math.pi * r
area = math.pi * (r ** 2)

print("The perimeter is:", perimeter)
print("The area is:", area)
```