**Chapter 3 programs**

**Simple I/O codes**

**Q1. Create a program that asks the user to input 4 numbers, add the first two numbers, multiply the third number and divide by the fourth number. Display the answer.**

**Algorithm:**

input number1,number2,number3,number4

sum=number1+number2

product=sum\*number3

div=product/number4

Output div

**Python code:**

number1=input(“Enter first number”)

number1=int(number1)

number2=input(“Enter second number”)

number2=int(number2)

number3=input(“Enter third number”)

number3=int(number3)

number4=input(“Enter fourth number”)

number4=int(number4)

sum=number1+number2

product=sum\*number3

div=product/number4

print(div)

**Q2. Create a program of three variables num1 ,num2 and num3 having values 60, 40 and 100. Find the addition of the first two numbers and subtract the third number. Display “the answer is” answer.**

**Algorithm:**

num1=60

num2=40

num3=100

sum=num1+num2

sub=sum-num3

Output “The answer is”,answer

**Python Code:**

num1=60

num2=40

num3=100

Answer=num1+num2-num3

print(“the answer is”, Answer)

**Q3. Enter a number and convert it into an integer value.**

**Python Program :**

number=input(“enter a number”)

number=int(number)

**Q4. Enter a number and convert it into a float value.**

**Python program:**

number=input(“enter a number”)

number=float(number)

**Q5 Ask the user to enter an email and assign the value “abcd@yahoo.com”. Display your email is <email>. Ask the user to enter the password and assign the value”ABCD”. Display account created successfully.**

**Algorithm:**

input email

email=”abcd@yahoo.com”

output “Your email is:”,email

input password

password=”ABCD”

Output “Account created successfully”

**Python code:**

email=input(“enter email”)

email=“abcd@yahoo.com”

print(“your email is”,email)

password=input(“enter your password”)

password=“ABCD”

print(“account created successfully”)

**Q6. Create a program that asks the user to enter 2 numbers. Multiply the first number by 5 and display the answer. Divide the second number by 2 and display the answer.**

**Algorithm:**

input num1,num2

answer1=num1\*5

output answer1

answer2=num2/2

output answer2

**Python code:**

num1=input(“enter a number”)

num1=int(num1)

num2=input(“enter another number”)

num2=int(num2)

ans1=num1\*5

print(“the answer is”,ans1)

ans2=num2/2

print(“the second answer is”,ans2)

**Q7. Create a program that asks the user to enter length and width. Calculate the area and display the answer in the form “the area is” <area>.**

**Algorithm:**

input length,width

area=length\*width

output “The area is:”, area

**Python code:**

length=input(“enter length”)

width=input(“enter width”)

length=int(length)

width=int(width)

area=length\*width

print(“ the area is”,area)

**Q8. Create a program that asks the user to enter a number. Multiply the number by 20 and subtract 100. Display the answer in the form “the answer is”, <answer>.**

**Algorithm:**

input number

answer=number\*20-100

output answer

**Python code:**

num1=input(“enter a number”)

num1=int(num1)

answer=num1\*20-100

print(“the answer is”,answer)

**Q9. Create a program that asks the user to enter 2 numbers. Divide the first number by the second number. Display the answer in the form “answer of dividing no1 by no2 is” <answer>.**

**Algorithm:**

input num1,num2

answer=num1/num2

output “answer of dividing no1 by no2 is”, answer

**Python code :**

num1=input(“enter a number”)

num1=int(num1)

num2=input(“enter another number”)

num2=int(num2)

answer=num1/num2

print(“answer of dividing num1 by num2 is”,answer)

**Q10. Create a program that asks the user to enter 2 numbers.. Multiply the numbers and display the answer in the form “the answer is” <answer>.**

**Algorithm:**

input num1,num2

answer=num1\*num2

output “the answer is”, answer

**Python code:**

num1=input(“enter a number”)

num1=int(num1)

num2=input(“enter another number”)

num2=int(num2)

answer=num1\*num2

print(“the answer is”,answer)

**Q11. Create 2 variables and assign them the values of 234 and 65. Add them.Display the result in float data type.**

**Algorithm**

num1=234

num2=65

sum=num1+num2

output sum

**Python code:**

Num1=234

Num2=65

Result=Num1+Num2

Result=float(Result)

print(Result)

**Q13. Write the python commands for the following:-**

**create a variable month and assign it a value “march”. Display the month.**

month=”march”

print(month)

display the “ mobile­\_network”

Print(“mobile\_network”)

**create a variable digit ,assign it a value 750. Add 100 to the digit and divide it by 10. Display the result.**

digit=750

sum=digit+100

div=sum/10

print(div)

**display 78945**

print(78945)

**display “ have a good day” and variable school.**

print(“have a good day”)

print(school)

**Make a variable called city with the value “Paris”**

city=”Paris”

Output the variable age

print(age)

**Ask the user “How old are you”, get user input and store the user input as the variable age.**

age=input(“How old are you”)

**Assign the value 9.99 to a float data type variable called price**

price=9.99

**Declare a variable called points and increase its value by 10**

points=points+10

**Write a print statement to leave a line space**

print(“\n”)

**Write a print statement to display this output hello 10 times**

print(“hello” \*10)