



**TECHNIK NEST**

**INNOVATIVE MINDS, NESTING SUCCESS**

**Name: Ayesha Bibi**

**Intern ID: TN/IN01/PY/016**

**Email ID: hashirkhan462002@gmail.com**

**Internship Domain: Python**

**Task Week: 3**

**Instructor Name: Hassan Ali**

## Solution:

### Task 1

```
[5]: num1 = float(input("enter any number : "))
num2 = float(input("enter any number : "))
op = input("enter any operator from (+,-,*,/) : ")
if (op=="+" ):
    print("\naddition of two is : ", num1+num2)
elif (op=="-"):
    print("\nsubtraction of two is : ", num1-num2)
elif (op=="*"):
    print("\nmultiplication of two is : ", num1*num2)
elif (op=="/"):
    if (num2 == 0):
        print("\nzero division error!")
    else:
        print("\ndivision of two is : ", num1/num2)
else:
    print("\nyou entered something wrong!")

enter any number : 3
enter any number : 0
enter any operator from (+,-,*,/) : /

zero division error!
```

## Solution:

### Task 2

```
[12]: sub1 = float(input("enter the marks of 1 subject out of 100 : "))
sub2 = float(input("enter the marks of 2 subject out of 100 : "))
sub3 = float(input("enter the marks of 3 subject out of 100 : "))
total_obtained = sub1+sub2+sub3
percentage = (total_obtained / 300) * 100
print("Your Total marks you have obtained is : ", total_obtained, " Percentage : ",round(percentage,1))
if (percentage >= 85):
    print("\n\nYou get A grade")
elif (percentage >= 70):
    print("\n\nYou get B grade")
elif (percentage >= 50):
    print("\n\nYou get C grade")
else:
    print("\n\nYou are FAILED!")

enter the marks of 1 subject out of 100 : 33
enter the marks of 2 subject out of 100 : 66
enter the marks of 3 subject out of 100 : 99
Your Total marks you have obtained is : 198.0 Percentage : 66.0

You get C grade
```

## Solution:

### Task 3

```
[15]: monthly_income = float(input("enter your total monthly income : "))
monthly_expenses = float(input("enter your total monthly expenses : "))
savings = monthly_income - monthly_expenses
print("Your Saving Are : ",savings)
if (savings >= 10000):
    print("Saving Well!")
elif (savings <= 9999 and savings >= 5000):
    print("Saving Average!")
elif (savings < 5000):
    print("Try To Save!")
else:
    print("entered something wrong!")

enter your total monthly income : 30000
enter your total monthly expenses : 20000
Your Saving Are : 10000.0
Saving Well!
```

## Solution:

### Task 4

```
[19]: name = input("enter your name = ")
password = input("enter your password = ")
if (name == "admin" and password == "1234"):
    print("Access Granted!")
else:
    print("Access Denied!")

enter your name = admin
enter your password = 1234
Access Granted!
```

## Solution:

### Task 5

```
[24]: attendance = input("enter your attendance : ")
final_marks = input("enter your final_marks : ")
if (attendance >= "70" and final_marks >= "50"):
    print("Promoted!")
else:
    print("Not Promoted")

enter your attendance : 77
enter your final_marks : 56
Promoted!
```

## Solution:

### Task 6

```
[25]: print(" ***** Billing System *****")
no_of_products = int(input("enter the no of products you buy : "))
total_price = int(input("enter the total price you spent here : "))
if (total_price > 1000 and no_of_products > 3):
    print("Congrats you earned a 15% discount!")
    price_to_pay = total_price * 0.85
elif (total_price > 500):
    print("Congrats you earned a 10% discount!")
    price_to_pay = total_price * 0.90
else:
    print("No Discount")
    price_to_pay = total_price
print("Total Price To Pay : ", price_to_pay)
```

```
***** Billing System *****
enter the no of products you buy : 2
enter the total price you spent here : 1200
Congrats you earned a 10% discount!
Total Price To Pay : 1080.0
```

