Operators task

1. Arithmetic Operators Task – Budget Planner

📝 Question:

You have ₹1500 in your wallet.

You spend:

- ₹300 on food
- ₹250 on transport
- ₹400 on shopping

You also earn ₹500 from freelance work.

Calculate:

1. Total money spent
2. Final balance in wallet
3. Percentage of total income spent

#programme:

```
total_amt=1500
spend_amt=300+250+400
earn=500
total_amt=total_amt+earn
print(total_amt)
bal_amt=total_amt-spend_amt
percentage=(spend_amt/total_amt)*100
print("total money spend is",spend_amt)
print("balance amount",bal_amt)
print(percentage,"%")
```

output:

2000 after earning

total money spend is 950

balance amount 1050

47.5 %

2. Assignment Operators Task – Game Score Tracker

📝 Question:

You are playing a game. Your score changes as follows:

- Start with score = 0
- In Level 1, you gain 10 points → use `+=`
- You get a bonus of 5 points → use `+=`
- In Level 2, you lose 3 points → use `-=`
- You use a booster that doubles your score → use `*=`

  Show the score after each change.

#Programme:

```
score=0
gain=10
bonus=5
lose=3
score+=gain
print(score,"at level1")
score+=bonus
```

```
print(score,"at level2")

score-=lose

print(score,"at level3")

score*=2

print(score)
```

output:

10 at level1

15 at level2

12 at level3

24

3. Comparison Operators Task – College Admission Check

📝 **Question:**

To get admission in a college, you need at least 60% marks.

Ask the user to input their percentage. Then check:

- Did the student qualify? (>= 60)
- Is their percentage **exactly equal** to 60?
- Did they get **less than** the cutoff?

#programme:

```
percent=float(input("enter the value:"))

qualify=percent>=60

exactly=percent==60

cuttoff=percent<60

print("Did the student qualify",qualify)
```

```
print("Is their percent exactly equal to 60",exactly)

print("Did they get less than the cutoff",cuttoff)
```

output:

```
>>enter the value:70

Did the student qualify True

Is their percent exactly equal to 60 False

Did they get less than the cutoff False

>>enter the value:45

Did the student qualify False

Is their percent exactly equal to 60 False

Did they get less than the cutoff True
```

4. Logical Operators Task – Laptop Purchase Decision

📝 **Question:**

You want to buy a laptop. You can only buy it if:

- You have more than ₹50,000 **or**
- Your parents are helping you

Ask the user:

- How much money do you have?
- Are your parents helping? (yes/no)

Print:

- "You can buy the laptop" if **any one** is true
- "Self-funded" if only you have enough and no parental help
- "Not possible now" if none are true

#programme:

```
money=int(input("enter the money :"))
parents_help=input("enter yes or no :")
if money>50000 and  parents_help=="no":
   print("selfunded")
elif money >50000 or parents_help=="yes":
      print("you can buy the laptop")
else:
        print("not possible now")
```

output:

```
>>enter the money :51000
enter yes or no :yes
you can buy the laptop

>>enter the money :50000
enter yes or no :no
not possible now

>>enter the money :60000
enter yes or no :no
selfunded
```

5. Logical Operators Task – Health Check Eligibility

📝 **Question:**

To be eligible for a free health check-up:

- Your age must be greater than 40
- You should **not** have done a check-up in the last year

Ask:

- Age
- Did you have a check-up last year? (yes/no)
- Print whether the person is eligible or not.

```
#programme:
age=int(input("enter the age :"))
checkup=input("enter yes or no :")
if age>40 and not checkup=="yes":
   print("eligible")
else:
   print("not eligible")
output:
>>enter the age :45
enter yes or no :no
eligible
>>enter the age :50
enter yes or no :yes
not eligible
```