SESSION - 4
QUIZ GAME

Learning Outcomes:

- **Remember**: The students will recall about variables, if-else and print statements .

- **Understand**: - They will focus on understanding the core concept of if-else to code a Quiz Game .

  - They will focus on understanding the logic of Percentage Calculation

- **Apply**: - They will learn to apply the concepts (variables, if-else, print)for coding the Quiz Game.

  - They will make for the Percentage formula

- **Analyze**: They will check their understanding by developing a code .

- **Create**: They will create the code in EduBlocks

ACTIVITY DESCRIPTION

- Create a Quiz game with questions and 4 options.
- Store the correct answer given
- calculate percentage and display

- Percentage calculation:
    - part= score points
    - whole= total number of questions

Remember & Understanding

$$\left| \frac{part}{whole} \times 100 = \% \right|$$

TASK 01:-

</> WRITE A CODE TO CREATE A QUIZ GAME

Program Steps

1. Create 2 Variables

       Score- for keeping score for correct answer

       Ans- To store answer given by user

       Percentage- to store percentage value

2. Display question and options
3. Add minimum 5 questions in the same manner

Percentage:

4. Create a percentage variable
5. Use math block for multiplication and division
6. Use concatenation to join different words and variables to print.

Percentage:

- Create a percentage variable
- Use math block for multiplication and division
- Use concatenation to join different words and variables to print.

Program

Program


```
print( "what is the national game of india" )
print( "1.cricket\n2.hockey\n3.football\n4.badminton" )
Ans = int( + input( "Enter your choice" ) )
if Ans == 2 :
    Score += 1
print( "what is the national fruit of india?" )
print( "1.mango\n2.apple\n3.banana\n4.pear" )
Ans = int( + input( "Enter your choice" ) )
if Ans == 1 :
    Score += 1
```

Program

Syntax Code

```
1   #Start code here
2   Percentage = 0
3   Score = 0
4   Ans = 0
5   print("what is the national bird of india")
6   print("1.pigeon\n2.crow\n3.peacock\n4.ostrich")
7   Ans = int(input("Enter your choice"))
8   if Ans == 3:
9       Score += 1
10  print("what is the national game of india")
11  print("1.cricket\n2.hockey\n3.football\n4.badminton")
12  Ans = int(input("Enter your choice"))
13  if Ans == 2:
14      Score += 1
15  print("what is the national fruit of india?")
16  print("1.mango\n2.apple\n3.banana\n4.pear")
17  Ans = int(input("Enter your choice"))
18  if Ans == 1:
19      Score += 1
```
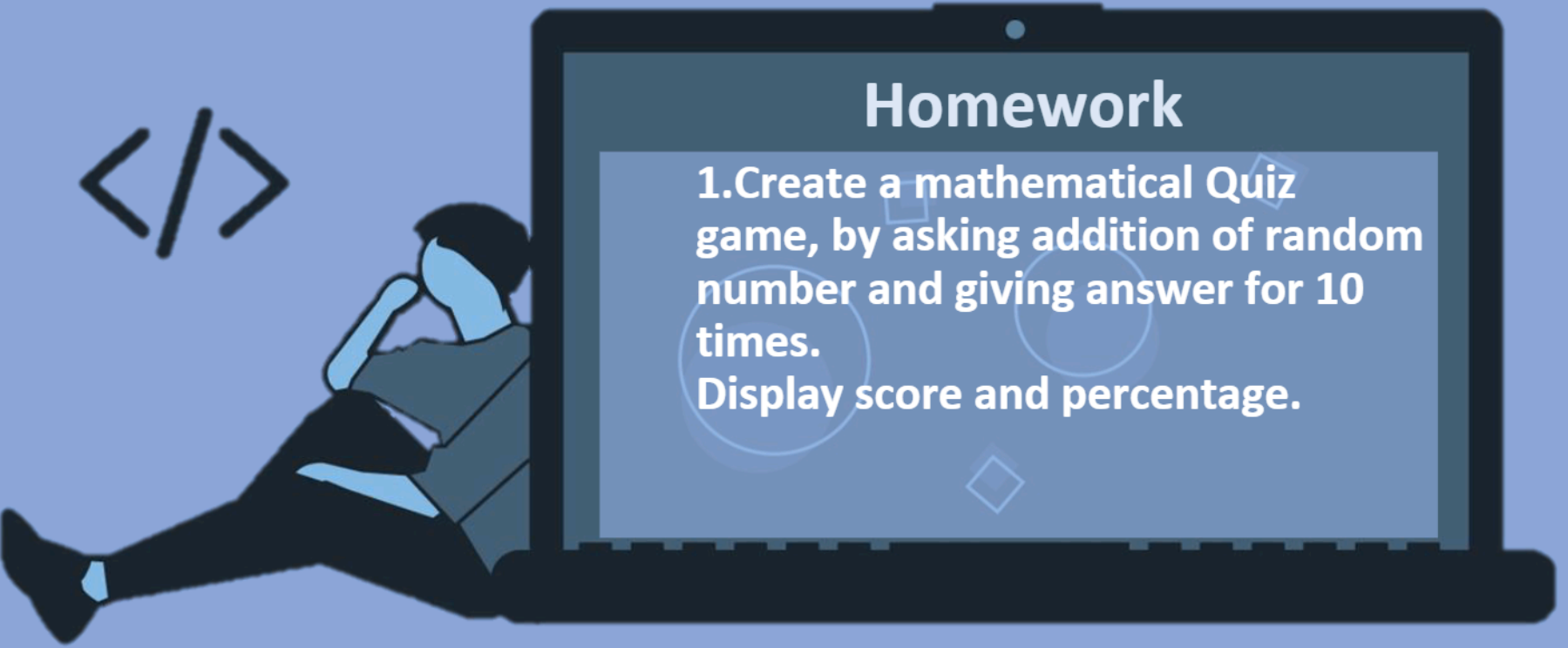
Syntax Code

```
20    print("how many states are there in india?")
21    print("1.26\n2.28\n3.30\n4.29")
22    Ans = int(input("Enter your choice"))
23 v  if Ans == 4:
24      Score += 1
25    Percentage = Score / 4 * 100
26    print("Your Score is :" + str(Score) + "out of 4")
27    print("Your Percentage  is :" + str(Percentage))
28
```

Output

```
Powered by ⊘trinket
what is the national bird of india
1.pigeon
2.crow
3.peacock
4.ostrich
Enter your choice 3
what is the national game of india
1.cricket
2.hockey
3.football
4.badminton
Enter your choice 1
what is the national fruit of india?
1.mango
2.apple
3.banana
4.pear
Enter your choice 1
how many states are there in india?
1.26
2.28
3.30
4.29
Enter your choice 4
Your Score is :3out of 4
Your Percentage  is :75.0
```

Homework

1.Create a mathematical Quiz game, by asking addition of random number and giving answer for 10 times.
Display score and percentage.