Task 1: Store your Bio data (Name, roll number, age, date of birth and Gender) in the variables.

In [4]:
```
Name=input('enter your name :')
roll_number=input('enter your roll number: ')
age=int(input('enter your age: '))
date_of_birth=(input('enter your date of birth: '))
gender=input('enter your gender: ')
print('\n')
print(f'My name is {Name} ')
print(f'I"m {age} years old ')
print(f'My roll number is {roll_number} ')
print(f'My date of birth is {date_of_birth} ')
print(f'I"m {gender}')
```

```
enter your name :Usama Arif
enter your roll number: 14
enter your age: 23
enter your date of birth: 5_july_2000
enter your gender: Male


My name is Usama Arif
I"m 23 years old
My roll number is 14
My date of birth is 5_july_2000
I"mMale
```

Task 2: Write a program to convert US dollar into Pakistani Rupees.

In [5]:
```
# Exchange rate of 1 USD to PKR
exchange_rate = 380

dollars = float(input("Enter the amount in US dollars: "))
pkr = dollars * exchange_rate
print("${} is equal to {} Pakistani Rupees.".format(dollars, pkr))

```

```
Enter the amount in US dollars: 466
$466.0 is equal to 177080.0 Pakistani Rupees.
```

Task3: Take two number from user and then Calculate these manipulations sum, subtract, multiple and division

In [6]:
```
num1 = float(input("Enter the first number: "))
num2 = float(input("Enter the second number: "))

sum_result = num1 + num2
subtract_result = num1 - num2
multiply_result = num1 * num2
if num2 != 0:
    division_result = num1 / num2
else:
    division_result = "Error: Cannot divide by zero"
print("Sum:", sum_result)
print("Subtraction:", subtract_result)
print("Multiplication:", multiply_result)
print("Division:", division_result)

```

```
Enter the first number: 34
Enter the second number: 45
Sum: 79.0
Subtraction: -11.0
Multiplication: 1530.0
Division: 0.7555555555555555
```

Task3 diagram

In [8]:
```
width = 23
height = 6
print("*" * width)

for i in range(height - 2):
    print("*" + " " * (width - 2) + "*")


print("*" * width)

```

```
***********************
*                     *
*                     *
*                     *
*                     *
***********************
```

Task 5: take two number from user and divide them and display them without floating point.

In [9]:
```
num1 = int(input("Enter the first number: "))
num2 = int(input("Enter the second number: "))

quotient = num1 // num2


print("Quotient:", quotient)

```

```
Enter the first number: 45
Enter the second number: 45
Quotient: 1
```

Task 6: Take the value from user in Celsius and covert into Fahrenheit.

In [10]:
```
celsius = float(input("Enter the temperature in Celsius: "))
fahrenheit = celsius * 9/5 + 32
print("Temperature in Fahrenheit:", fahrenheit)

```

```
Enter the temperature in Celsius: 36
Temperature in Fahrenheit: 96.8
```

In [ ]:
```
# Task 7: find the slope x1=5, x2=10 Where y1=3, y2=5 , b will be enter fr
```

In [15]:
```
x1 = 15
x2 = 10
y1 = 13
y2 = 9
b = float(input("Enter the value of b (y-intercept): "))

slope = (y2 - y1) / (x2 - x1)
print(f'Eqaution: y= {slope}x + {b}')

```

```
Enter the value of b (y-intercept): 5
Eqaution: y= 0.8x + 5.0
```

Task 8: Enter your height in feet and centimetres then system will display in meters

In [16]:
```
feet = float(input("Enter your height in feet: "))
centimeters = float(input("Enter your height in centimeters: "))
inches = feet * 12  # Convert feet to inches
total_inches = inches + centimeters / 2.54  # Convert inches and centimete
meters = total_inches * 0.0254  # Convert total inches to meters

# Display the height in meters
print("Your height in meters:", meters)

```

```
Enter your height in feet: 5.6
Enter your height in centimeters: 170.688
Your height in meters: 3.4137599999999995
```

Task9: Enter your matriculation marks subject wise and the system will display total marks and percentage of all also display subject wise percentage

In [20]:

```python
# Subject-wise maximum marks
math_max_marks = 100
bio_max_marks = 100
physics_max_marks = 100
chemistry_max_marks = 100
urdu_max_marks = 100
english_max_marks = 100
islamyat_max_marks = 50
pak_study_max_marks = 50

# Input the marks for each subject from the user
math_marks = float(input("Enter the marks for Math: "))
bio_marks = float(input("Enter the marks for Biology: "))
physics_marks = float(input("Enter the marks for Physics: "))
chemistry_marks = float(input("Enter the marks for Chemistry: "))
urdu_marks = float(input("Enter the marks for Urdu: "))
english_marks = float(input("Enter the marks for English: "))
islamyat_marks = float(input("Enter the marks for Islamyat: "))
pak_study_marks = float(input("Enter the marks for Pakistan Study: "))

# Calculate the total marks
total_marks = (math_marks + bio_marks + physics_marks + chemistry_marks +
               islamyat_marks + pak_study_marks)

# Calculate the percentage for each subject
math_percentage = (math_marks / math_max_marks) * 100
bio_percentage = (bio_marks / bio_max_marks) * 100
physics_percentage = (physics_marks / physics_max_marks) * 100
chemistry_percentage = (chemistry_marks / chemistry_max_marks) * 100
urdu_percentage = (urdu_marks / urdu_max_marks) * 100
english_percentage = (english_marks / english_max_marks) * 100
islamyat_percentage = (islamyat_marks / islamyat_max_marks) * 100
pak_study_percentage = (pak_study_marks / pak_study_max_marks) * 100
#total percentage
total_percentage=(total_marks/800)*100
print('total percentage ',total_percentage)
# Display the total marks and percentage for each subject
print("Total Marks: ", total_marks)
print("Math Percentage: ", math_percentage)
print("Biology Percentage: ", bio_percentage)
print("Physics Percentage: ", physics_percentage)
print("Chemistry Percentage: ", chemistry_percentage)
print("Urdu Percentage: ", urdu_percentage)
print("English Percentage: ", english_percentage)
print("Islamyat Percentage: ", islamyat_percentage)
print("Pakistan Study Percentage: ", pak_study_percentage)


```

```
Enter the marks for Math: 94
Enter the marks for Biology: 89
Enter the marks for Physics: 89
Enter the marks for Chemistry: 87
Enter the marks for Urdu: 80
Enter the marks for English: 94
Enter the marks for Islamyat: 46
Enter the marks for Pakistan Study: 47
total percentage  78.25
Total Marks:  626.0
Math Percentage:  94.0
Biology Percentage:  89.0
Physics Percentage:  89.0
Chemistry Percentage:  87.0
Urdu Percentage:  80.0
English Percentage:  94.0
Islamyat Percentage:  92.0
Pakistan Study Percentage:  94.0
```

In [ ]:

```
1
```