

main-assignment

Use the "Run" button to execute the code.

```
!pip install jovian --upgrade --quiet
```

```
import jovian
```

```
# Execute this to save new versions of the notebook  
jovian.commit(project="main-assignment")
```

```
# Q. 1 Write a program to display "Hello" if a number entered by user is a multiple of  
a = int(input("enter a no:"))  
if(a%5 == 0):  
    print("Hello")  
else:  
    print("Bye")
```

```
#Q 2 Write a program to check whether a number is divisible by 7 or not.
```

```
a = int(input("enter a no:"))  
if(a%7 == 0):  
    print("a is divisible by 7")  
else:  
    print("a is not divisible by 7")
```

enter a no:21

a is divisible by 7

```
#Q 3. Write a program to check whether a person is eligible for voting or not. (accept
```

```
a = int(input("enter a age:"))  
if(a >= 18):  
    print("person is eligible for voting")  
else:  
    print("person is not eligible for voting")
```

enter a age:78

person is eligible for voting

```
#Q. 4 Write a program to check whether a number entered by user is even or odd.
```

```
a = int(input("enter a no:"))  
if(a%2 == 0):  
    print("number entered by user is even")  
else:  
    print("number entered by user is odd")
```

enter a no:8

number entered by user is even

#Q 5

*#Write a program to calculate the electricity bill (accept number of unit from user) as follows:
#: Unit Price First 100 units no charge Next 100 units Rs 5 per unit After 200 units Rs 10 per unit
#(For example if input unit is 350 then total bill amount is Rs2000)*

```
unit = int(input("enter a electricity unit"))
if unit <= 100:
    print("no charge")
elif (unit > 100) and (unit<=200):
    unit1 = ((unit-100)*5)
    print("total bill is a ", unit)
elif (unit > 200):
    unit = ((unit-200)*10 + 500)
    print("total bill is a ", unit)
else:
    print("you enter a wrong value")
```

enter a electricity unit350

total bill is a 2000

#Q 6 Write a program to display the last digit of a number. (hint : any number % 10 will give the last digit)

```
a= int(input(" Enter the Number: "))
b = a%10
print(b)
```

Enter the Number: 50897

7

"""

Q 7

Write a program to accept percentage from the user and display the grade according to the following table:

Marks

```
> 90      A
> 80 and <= 90    B
>= 60 and <= 80    C
below 60  D
```

"""

```
per = int(input("enter a pecentage: "))
if per>90:
    print("A")
elif per>80 and per<=90:
    print("B")
```

```
elif per>60 and per<=80:
    print("C")
else:
    print("D")
```

enter a percentage: 75

C

```
"""
Q 8
Write a program to accept the cost price of a bike and display the road tax to be paid

Cost price (in Rs)          Tax

> 100000                      15 %

> 50000 and <= 100000        10%

<= 50000                      5%
"""
```

```
amount= int(input('enter a ampount of bike'))
```

```
if amount > 100000:
    tax = amount*15/100
    print('tax to be paid is Rs. ',tax)

elif amount >50000 and amount <= 100000:
    tax = amount*10/100
    print('tax to be paid is Rs. ',tax)
else:
    tax = amount*5/100
    print('tax to be paid is Rs. ',tax)
```

enter a ampount of bike80000

tax to be paid is Rs. 8000.0

```
amount= int(input('enter a ampount of bike'))

if amount > 100000:
    tax_percetage = 15/100

elif amount >50000 and amount <= 100000:
    tax_percetage =10/100

else:
    tax_percetage = 5/100

tax=amount*tax_percetage
print('tax to be paid is Rs.',tax)
```

enter a amount of bike1000000
tax to be paid is Rs. 150000.0

#Q9 Write a program to check whether an years is leap year or not.

```
year = int(input("Enter a year"))
if (year%400 ==0 and year%100 == 0):
    print("leap year")
elif(year % 100 == 0):
    print("not a leap year")
elif (year%4 == 0):
    print("leap year")
else:
    print("wrong input")
```

Enter a year1700
not a leap year

#Q10 Write a program to accept a number from 1 to 7 and display the name of the day lik

```
a = int(input("enter a no: "))
if a==1:
    print("Sunday")
elif a==2:
    print("moday")
elif a==3:
    print("Tuesday")
elif a==4:
    print("Wednesday")
elif a==5:
    print("Thursday")
elif a==6:
    print("Friday")
elif a==7:
    print("Saturday")
else:
    print("wrong input")
```

enter a no: 2
moday

```
a = int(input("enter a no: "))
b=("not defined", "Sunday", "moday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday",
if a>7:
    print("not defined")
else:
    print(b[a])
```

enter a no: 6
Friday

```
"""
```

Q11

Accept any city from the user and display monument of that city.

City	Monument
Delhi	Red Fort
Agra	Taj Mahal
Jaipur	Jal Mahal

```
"""
```

```
city=input("Enter any city ")#case sensitive
if city=="Delhi":
    print("Red Fort")
elif city=="Agra":
    print("Taj Mahal")
elif city=="Jaipur":
    print("Jal Mahal")
else:
    print("Wrong input")
```

Enter any cityAgra

Taj Mahal

#Q 12 Write a program to check whether a person is senior citizen or not.

```
age = int(input("enter a age:"))
if(age >= 62):
    print("person is a senior citizen")
else:
    print("person is not a senior citizen")
```

#Q13 Write a program to whether a number (accepted from user) is divisible by 2 and 3 both

```
num= int(input("Enter a no"))
if (num%2 == 0 and num%3 == 0):
    print("number is divisible by 2 and 3 both")
else:
    print("number is not divisible by 2 and 3 both")
```

#Q 14 Write a program to check whether a number (accepted from user) is positive or negative

```
n = int(input("Enter a no: "))
if n==0:
    print("zero is neither positive or negative")
elif n < 0:
    print("given no is negative")
else:
    print("given no is positive")
```

Enter a no: 0

zero is neither positive or negative

#Q 15 Accept the age of 4 people and display the youngest one?

```
a = int(input("enter a age of first person"))
b = int(input("enter a age of second person"))
c = int(input("enter a age of third person"))
d = int(input("enter a age of fourth person"))
```

```
if a<b and a<c and a<d:
    print("a is youngest person")
elif b<c and b<d:
    print("b is the youngest person")
elif c<d:
    print("c is the youngest person")
else:
    print("d is the youngest person")
```

enter a age of first person9

enter a age of second person8

enter a age of third person7

enter a age of fourth person090

c is the youngest person

#Q 16 Write a program to check a character is vowel or not.

```
char = input("enter a character")
if(char == 'a') or (char == 'e') or (char == 'i') or (char == 'o') or (char == 'u'):
    print("given character is vowel")
else:
    print("the given character is consonant")
```

```
char = input("enter a character ")
a=('a','e','i','o','u')
if (char in list(a)):
    print('given character is vowel')
else:
    print("the given character is consonant")
```

enter a character u

given character is vowel

```
char = input("enter a character")
if char == 'a':
    print("given character is vowel")
elif char == 'e':
    print("given character is vowel")
elif char == 'i':
    print("given character is vowel")
```

```

elif char == 'o':
    print("given character is vowel")
elif char == 'u':
    print("given character is vowel")
else:
    print("the given character is consonant")

```

```

"""
Q 17
Accept the following from the user and calculate the percentage of class attended:
a. Total number of working days

b. Total number of days for absent

After calculating percentage show that, If the percentage is less than 75, than student
"""

a = float(input(" Enter total no of working days"))
b = float(input(" Enter total no of absent days"))

c = a-b
print("No of present days is ", c)

pp = (c/a)*100

if pp < 75:
    print("student can not sit in exam")
else:
    print("student can sit in exam")

```

Enter total no of working days100

Enter total no of absent days75

No of present days is 25.0

student can not sit in exam

```

"""
Q 18 Accept three sides of a triangle and check whether it is an equilateral, isosceles
Note :

An equilateral triangle is a triangle in which all three sides are equal.

A scalene triangle is a triangle that has three unequal sides.

An isosceles triangle is a triangle with (at least) two equal sides.
"""

a = int(input("first side of triangle: "))
b = int(input("second side of triangle: "))
c = int(input("third side of triangle: "))
if a==b==c:
    print("It is an equilateral triangle ")

```

```

elif a==b or a==c or b==c or a==b==c:
    print("It is a isosceles triangle")
elif(a!= b!= c):
    print("Its is a scalene traingle")
else:
    print("wrong input")

```

first side of triangle: 2
 second side of triangle: 3
 third side of triangle: 2
 It is a isosceles triangle

```

a = int(input("first side of triangle: "))
b = int(input("second side of triangle: "))
c = int(input("third side of triangle: "))
if a == 0 or b== 0 or c==0:
    print('triangle is not possible')
elif a==b==c:
    print("It is an equilateral triangle ")
elif a==b or a==c or b==c or a==b==c:
    print("It is a isosceles triangle")
else:
    print("Its is a scalene traingle")

```

first side of triangle: 0
 second side of triangle: 7
 third side of triangle: 9
 triangle is not possible

```

"""
Q 19 Accept the age, sex ('M', 'F'), number of days and display the wages accordingly
Age Sex Wage/day

=18 and <30 M 700 F 750 =30 and <=40 M 800 F 850
"""
age = int(input("Enter the age "))
gen = input("Enter the gender")
c = int(input("Enter the working days "))

if gen == 'm' and age in range(18, 30):
    sal = 700
    wage = sal * c
    print("wage is", wage )
elif gen == 'm' and age in range(30, 41):
    sal = 800
    wage = sal * c
    print("wage is", wage )
elif gen == 'f' and age in range(18, 30):

```



```
sal = 750
wage = sal * c
print("wage is", wage )
elif gen == 'f' and age in range(30, 41):
    sal = 850
    wage = sal * c
    print("wage is", wage )
```

```
"""
Q 20
Accept three sides of triangle and check whether the triangle is possible or not.
(triangle is possible only when sum of any two sides is greater than 3rd side)
"""
```

```
a = int(input("first side of triangle: "))
b = int(input("second side of triangle: "))
c = int(input("third side of triangle: "))

if( a==0 or b==0 or c==0 ):
    print("Traiangle is not possible")
elif (a < b+c) or (b < a+c) or (c < a+b):
    print("Triangle is possible")
else:
    print("Traiangle is not possible")
```

```
first side of triangle: 6
second side of triangle: 7
third side of triangle: 9
Triangle is possible
```

```
jovian.commit()
```