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) ac #: Unit Price First 100 units no charge Next 100 units Rs 5 per unit After 200 units Rs #(For example if input unit is 350 than 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 wil*

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 t 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 pecentage: 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 ampount 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

|  |  |  |
| --- | --- | --- |
|  | City | Monument |
| Delhi | Red Fort |
| Agra | Taj Mahal |
| """ | Jaipur | Jal Mahal |

Enter any cityAgra Taj Mahal

""" Q11

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

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")

*#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 b*

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 neg*

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:

1. Total number of working days
2. 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("Traingle is not possible")

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

jovian.commit()