Worksheet 1

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Section: AU

Roll no- 01

Univ. Roll No. :2315000029

1. Output-

Case 1:

Enter voter’s age:19

You can cast your vote!

Case 2:

Enter voter’s age:15

Sorry! You are not eligible to vote!

Case 3:

Enter voter’s age:18

You can cast your vote!

2.

color=input("Enter color of light")

if color=="green":

    print("car is allowed to go")

elif color=="yellow":

    print("car has to wait")

elif color=="red":

    print("Car has to stop")

else:

    print("Unrecognised signal")

3.

grade=input("enter your grade")

if grade=="A":

    print("Outstanding")

elif grade=="B":

    print("Excellent")

elif grade=="C":

    print("Very good")

elif grade=="D":

    print("Good")

elif grade=="E":

    print("satisfactory")

else:

    print("Unrecognized")

4.

phy=int(input("enter marks in physics"))

eng=int(input("Enter marks in english"))

math=int(input("enter marks in maths"))

c=int(input("Enter marks in C"))

electrical=int(input("enter marks in electrical"))

total=phy+eng+math+c+electrical

print("Total marks:",total)

percent=(total\*100)/500

print("Percentage:",percent)

if percent<45:

    print("Fail")

elif percent>=45 and percent<60:

    print("pass")

elif percent>=60 and percent<75:

    print("Good")

elif percent>=75 and percent<85:

    print("Very good")

elif percent>=85 and percent<=100:

    print("Excellent")

elif percent<0 and percent>100:

    print("it's an error")

**5. What will be the output of this code, and how can you fix any issues related to typecasting?**

x = "10"

y = 5

result = x + y

print(result)

Output: error

Can concatenate str to str

To fix it concatenate two strings or two integers.

x = "10"

y = "5"

result=x+y

print(result)

6.

**6.What will be the output of this code, and what is the logic behind the conditions?**

a = 10

b = 15

c = 20

if a < b < c:

print("Condition 1")

elif c > b > a:

print("Condition 2")

else:

print("Condition 3")

In this case output will be : Condition 1

Logic:

Condition 1 :This checks if a<b and b<c if both of them are True then block of code under it will be executed.

Condition 2:This checks if c>b and b>a if both of them are True then block of code under it will be executed.

Condition 3: If none of the above conditions is true then block of else will be executed.

7.

x="56"

y=3

z=x\*y

print(z)

Output:

565656

8.

Remove double quotes from 56

x=56

y=3

z=x+y

print(z)

Output:59

9.

**9. Give the output as : 5656 Find the error and correct this.**

x="56"

y=int(x)

z=x+y

print(z)

Correction: str in place of int

Correct program:

x="56"

y=str(x)

z=x+y

print(z)

Output:5656

**10. Write a Python program to find those numbers which are divisible by 7 and multiples of 5,**

**between 1500 and 2700 (both included).**

for i in range(1500,2701,1):

    if i%5==0 and i%7==0:

        print(i)

**11.**

temp=int(input("enter temperature in celsius"))

farhenheit= ((temp\*(9/5))+32)

print(temp,"Degree celsius is",farhenheit,"in farhenheit")

temp2=int(input("Enter temperature in farhenheit"))

celsius=(farhenheit-32)\*5/9

print(temp2,"Degree farhenite is",celsius,"in Celsius")

**12.**

**.What is the difference between the == and = operators in Python?**

**The = is an assignment operator. It assigns values from right operand to left operand.**

**While == checks whether the two operands are equal or not.**

**13.**

year=int(input())

if year%4==0:

    print("Leap year")

elif year%100==0:

    print("Not a leap year")