INDIAN SCHOOL AL WADI AL KABIR

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| **Class: 11th (CS)** |  **Department: Computer Science** | **Date of submission:** |
| **Worksheet No: 5** |  **Topic: flow of control – Selection Statement – if else** | **Note:**  |

Q1. What is the difference between else and elif construct of if statement?

Q2. . Write the output of the following if a = 9

 if (a > 5 and a <=10):

 print("Hello")

 else:

 print("Bye")

Q3. What will be the output of the following code fragment? I) if a = 25 ii) a=12 iii) if a=48

if ( a % 3 == 0):

 if(a % 4 ==0):

 b = a \* 10

else:

 if(a%8 ==0):

 b = a + 50

 else:

 b = a \* 20

print(“Result”, b)

Q4. What is the error in the following code? Correct the code.

a, b = 30, 15

if a%3 = 0 :

 c=b\*3

 print(“Result = ”,c)

Elif a%5 == 0

 d=b\*5

 Print(“Result = “,d)

else:

 f==d\*10

 print(“Result = “,f)

Q5. Find the errors in the code given below and correct the code:

x=25

if d==1

 y==x\*2

elif : d==2

 y=x\*3

elif

 d==3:

 y=x\*20

else

 y=x\*50

print(“Value Y = ”,y)

Q6. What gets printed with the following code?

X=True

Y=False

Z=False

if X or Y and Z:

 print (“Yes”)

else:

 print (“No”)

Q7. What will the program print if the user provides the following input?

 (a) 3 (b) 21 (c) 17 (d) 5 (e) -5

val = eval(input())

if val < 10:

 if val != 5:

 print(“Wow ”, end=’ ’)

 else:

 val += 1

else:

 if val == 17:

 val += 10

 else:

 print(“Well “, end=’ ’)

print(val)

 Q8. Find the output of the following codes.

 a.

x=3

if x>2 or x<5 and x==6:

 print("ok")

else:

 print("no output")

 b.

 x=50

if x>10:

 if x>25:

 print("ok")

 if x>60:

 print("good")

 elif x>40:

 print("average")

 else:

 print("no output")

Q9. Evaluate the following statements:

a=True

b=True

c=True

d=True

i. print(not a or b or c )

ii. print(not (a and b and c))

iii. print(not (a or b or c) )

iv. print(not a and not b and not c)

v. print(not a or not b or not c )

vi. print(not (not a or not b or not c))

Q10. Do the following :

1. Write a Python program to check whether a No. is Odd or Even or not.

2. Write a Python program to check whether a No. is multiple of 5 or not.

3.. Write a Python program to check whether a No. is divisible by 8 or not.

4. Write a Python program to find out who is elder person in 2 different persons.

5. Write a Python program to check a character is vowel or not.

6. Write a Python program to input an arithmetic operator and two numbers and perform the

 operation based on the input operator.

7. Write a Python program to print the Income, Tax & Surcharge of Employ. The Tax and Surcharge

 based on the following conditions.

Income Tax % Surcharge

< Rs. 15000 15% 7%

Rs. 15001 to Rs. 20000 18% 11%

Above Rs. 21000 20% 13%

[Total Income =Income- Tax-Surcharge]

[Tax=Income< Tax\_percentage >)/100].

Display all information like Income, Tax & Surcharge .

8. Write a Python program to get input distance and print fare for the passenger according to:

DISTANCE FARE (in Rs.)

Upto 20km 10 P/Km

Next 20km 7 P/Km

Above 6 P/Km

9. Write a Python program to input a basic salary of an employee and calculate the Special Incentive

 based on the following criteria:

Basic Salary Special Incentive

Less than 10000 15 % of Basic Salary

Between 10000 and 19999 25 % of Basic Salary

Between 20000 and 49999 35 % of Basic Salary

Otherwise 50 % of Basic Salary

10. Write a program to input 3 sides of a triangle (in cm) and print whether it is a scalene or isosceles

 or equilateral triangle.