KENDRIYA VIDYALAYA WARANGAL

Holiday Homework

Autumn Break

Class/ Sec: XI

S.No	Subject	Home work Allotted	Signature
1	Chemistry	Chemical Bonding, Periodic table. Thermo dynamic & Exercise Questions answers writing in fair note book.	
2	Physics	formulae and diagrams of – Units & Measurement, Motion St. line – Motion in plane, laws of motion – Work, Energy & Power.	
3	Maths	1) Learn & write 1 to 20 tables 2 times 2) Learn & write 1 to 20 Squares and 1 to 10 cubes 3) Learn & write All trigonometric formulae 2 times 4) write all examples from ch 1 to ch 9.	
4	English	Practice question papers – 3 Nos To be answered in homework note books.	
5	CS	Submitted in Hardcopy	
6	BIO	Learn all Scientific Terms with meanings from completed Chapters of NCERT Text Book. Maintain note Book.	

7. Hindi => एक प्रोजेक्ट बनाना है => लता मंगेशकर और राजस्थान की रजत भूमि

KENDRIYA VIDYALAYA WARANGAL

AUTUMN BREAK HOLIDAY HOMEWORK-2023

CLASS-XI

SUBJECT: COMPUTER SCIENCE (083)

1. What is the difference between while and for loop? Explain with an example.
2. Explain the for loop by using break statement?
3. Explain the while loop by using continue statement?
4. What is the difference between else and elif construct of if statement?
5. What is the purpose of range() function? Give one example.
6. Find the output of the following program segments:

(i)

```
a = 110
while a > 100:
print(a)
a -= 2
```

(ii)

```
for i in range(20,30,2):
print(i)
```

(iii)

```
country = 'INDIA'
for i in country:
print (i)
```

(iv)

```
i = 0; sum = 0
while i < 9:
if i % 4 == 0:
sum = sum + i
i = i + 2
print (sum)
```

(v)

```
for x in range(1,4):
for y in range(2,5):
if x * y > 10:
break
print (x * y)
```

(vi)

```
var = 7
while var > 0:
print ('Current variable value: ', var)
var = var -1
if var == 3:
break
else:
if var == 6:
var = var -1
continue
print ("Good bye!")
```

(PTO)

7. Write a program to find the sum of digits of an integer number, input by the user.
   Example: Enter the number: 325
   The sum of digits is 10
8. Write a function that checks whether an input number is a palindrome or not. [Note: A number or a string is called palindrome if it appears same when written in reverse order also. For example, 12321 is a palindrome while 123421 is not a palindrome]
9. What is the Characteristics of a good algorithm
10. Write the output of following:

a)

```
T1 = (1, 2, 3, 4, 5, 6, 7, 8)
print(T1[1 : : 2])
print(T1[-1 : -5 : -2])
print(T1[: : -1])
print(T1[ : 7 : 2])
```

b)

```
T1 = (45, 67, 98)
T1 = T1 + (1, 2, 3)
print(T1)
```

c)

```
T1 = (45, 67, 98)
T2 = ((45, 67, 98))
print(T1 in T2)
print(45 in T2)
print(45 in T1)
print(T1 + T2)
```

d)

```
T1 = (1, 2, 3, 4, 5, 6, 7, 8)
print(T1[ : ])
print(T1[3 : ])
print(T1[ : 4])
print(T1[-2 : -5 ])
```

10. State and verify Absorption rule by using truth table.
11. State and verify distributive law by using truth table.
12. Draw a logic circuit of: (x+Y)'
13. What is the principal of duality?
14. Write a program to check entered number is prime or not?
15. Write a program to print last three elements from tuple?

19/10/2023
(SMT PGT CCS)