

Python (Practical) Worksheet

Worksheet Instructions fo Students

- ↪ This practical worksheet will be evaluated for 25 marks
- ↪ Use loose sheet for your work.
- ↪ On the top of the front page of your loose sheet, write clearly name, class, roll no., subject and date
- ↪ Submission Deadline : Monday, 25th Falgun, 2082
- ↪ Make sure your work is neat and legible.

Attempt all the questions.

1. Define operators in Python. Explain arithmetic, relational and logical operators (and, or and not). 1 + 4 = 5 marks
2. Write output and show dry run: (Show working process in table) 2 marks

for i in range (1, 5):

 for j in range (1, i+1):

 if j % 2 == 0:

 print (j, end= “ ”)

 else:

 print (i, end=“ ”)

 print ()

3. Re-write the following program correcting errors. 2 marks

```
# Program to find sum of digits of number
```

```
num = input (int (“enter a number”))
```

```
sum=0
```

```
while num > 0
```

```
    digit = n % 10
```

```
    sum = sum + digit
```

```
    num = num / 10
```

```
print (sum)
```

4. Read the following program and answer the following questions. 2 marks

```
leng = int (input (“enter length”))
bread = int (input (“enter breadth”))
peri = 2 * (leng + bread)
print (“perimeter of rectangle=”, peri)
```

Questions:

- a. List the variables used in the above program.
 - b. List the operators used in the above program with their types.
5. Write programs in python. 7 x 2 marks =14 marks
- a. Write a program to calculate area and circumference of circle. [Area= πR^2 , Circumference= $2\pi R$, where $\pi = 3.14$ and R = Radius of the circle]
 - b. Write a program to input a number and check whether it is even or odd.
 - c. Write a program to input three different numbers and print the smallest number.
 - d. Write a program to print the following Fibonacci series:
2, 1, 3, 4, 7, 11, upto 12th term.
 - e. Write a program that will ask user to input a word. The program should count and print total number of vowels and consonants present in the word.
 - f. Write a program to input a word and check whether it is palindrome or not.
 - g. Write a program to input a number and print it in reverse order.
