**Assignment 01**

**Q1. Write a program to take input from user following approach:**

* **raw\_input():**

>>>name = raw\_input(“Enter your name : “)

Enter your name : abc

>>> print(name, type(name)) **#**It will return string

abc<type ‘str’>

* **raw\_input() with type conversion**

>>> age= int(raw\_input(“Enter your age : ”))

Enter your age : 25

>>> print(age, type(age))

25 <type ‘int’>

* **raw\_input() using eval**

>>> name= eval(raw\_input(“Enter your name? ”))

Enter your name? “xyz”

>>> print(name, type(name))

xyz <type ‘str’> #because we have given input in a proper format as string.

* **input() in version 2:** It behaves same as eval(raw\_input())

>>> a= input(“Enter : ”)

Enter : 5

>>> type(a) # input() preserves the original type, no conversion

<type ‘int’>

* **input() in version 3**

name= input(“Enter name : ”)

Enter name : xyz

>>>print (name, type(name))

xyz <class ‘str’>

**Q2. Write a program to print the statement given, following are the statement:**

* **Hello! My name is XYZ**

print “Hello! My name is XYZ” - version 2

print(“Hello! My name is XYZ”) - version 3

* **" Hello I am a candidate "**

print ‘”Hello I am a candidate”’ - version 2

print(‘”Hello I am a candidate”’) – version 3

* **“234.56”**

print ‘“234.56”’ – version 2

print (‘“234.56”’) – version 3

* **“34”**

print ‘”34”’ – version 2

print(‘”34”’) – version 3

* **a+3j**

print “a+3j”

print(“a+3j”)

**Q3. Solve the following expression and return the data type of the variable**

* **x= 10+20\*(45+67.0)**

Ans- 2250.0

* **x= (True And False) OR False**

Ans: False

* **x= (True OR True) AND (NOT False AND True)**

Ans: True

* **x= (3>89) OR (34>32)**

Ans: True

* **x= NOT True AND False**

Ans: False

Q4. Write a program to print “Hurry it is what I am looking for” if the number is divisible by 2 and 5 if it not and print “wrong input”. Make sure that you allow user to input the value from keyboard.

Ans: **n=int(raw\_input("Enter Number : "))**

**if n%2==0 and n%5==0:**

**print "Hurry it is what I am looking for"**

**else:**

**print "Wrong input"**

Q5. Write a program to enter the number and print “Yes I am in the range” if it is in the range of 10-15 if not and then print “Oops”.

**x=range(10,15)**

**n=int(raw\_input("Enter Number : "))**

**if n in x:**

**print "Yes I am in the range"**

**else:**

**print "Oops"**

Q6. Write a program to implement the nested and ladder if else condition.

**num = float(input("Enter a number: "))**

**if num >= 0:**

**if num == 0:**

**print("Zero")**

**else:**

**print("Positive number")**

**else:**

**print("Negative number")**