Practical-2: Basic Python Programming

1) Write a python program to print "Welcome to UVPCE".
Code:

```
print("21012021003_AMIT GOSWAMI")
print("WELCOME UVPCE")
```

Output:

```
21012021003_AMIT GOSWAMI
WELCOME UVPCE
```

2) Write a python program which takes student information such as Name, Enrollment Number, Branch, Age, Email and Mobile number from user and print as following:

"=============================="
Your Name
Your Enrollment No.
Branch: CE/IT
Age:XX years
Email:your mail ID
Mobile No: your No.
"=============================="

Code:

```
print("21012021003_AMIT GOSWAMI")
Name = input("Enter your name : ")
Num = input("Enter your enrollment no : ")
Branch = input("Enter your branch : ")
Age = input("Enter your age : ")
Email = input("Enter your email : ")
Mob = input("Enter your mobile number : ")
print("==============================")
print("your name : {} \n enrollment no : {} \n branch : {} \n age :
{} \n email : {} \n mobile number :
{}".format(Name,Num,Branch,Age,Email,Mob))
print("==============================")
```

Output:

```
21012021003_AMIT GOSWAMI
Enter your name : AMIT GOSWAMI
Enter your enrollment no : 21012021003
Enter your branch : CEIT-B
Enter your age : 19
Enter your email : amitgoswami698@gmail.com
Enter your mobile number : 7678630160
============================
your name : AMIT GOSWAMI
 enrollment no : 21012021003
 branch : CEIT-B
 age : 19
 email : amitgoswami698@gmail.com
 mobile number : 7678630160
============================
```

3) Write python programs to evaluate the following expressions to demonstrate the use of operator precedence and associativity.

12 + 3 - 4 / 2 < 3 + 1

X = (10 * 2) % 2 << 4++

Code:

```
print("21012021003_AMIT GOSWAMI")
x=12 + 3 - 4 / 2 < 3 + 1
print(x)
y=(10 * 2) % 2 << 4
print(y)
```

Output:

```
21012021003_AMIT GOSWAMI
False
0
```

4) Write a python program to display data types of different variables.

Code:

```
print("21012021003_AMIT GOSWAMI")
x,y,z,a,b,c=3,6.34,'hello',[2,4,8,'patel'],(1,2,3,'uvpce'),True

print("type of x = {} \n type of y = {} \n type of z = {} \n type
of a = {} \n type of b = {}\n type of c = {}
\n".format(type(x),type(y),type(z),type(a),type(b),type(c)))
```

Output:

```
21012021003_AMIT GOSWAMI
type of x = <class 'int'>
 type of y = <class 'float'>
 type of z = <class 'str'>
 type of a = <class 'list'>
 type of b = <class 'tuple'>
 type of c = <class 'bool'>
```

5) Write a python program to check given character is a vowel or not.

Code:

```
print("21012021003_AMIT GOSWAMI")
print('Enter the character')
inp = input()

if 'a'==inp or 'e'==inp or 'i'==inp or 'o'==inp or 'u'==inp or
'A'==inp or 'E'==inp or 'I'==inp or 'O'==inp or 'U'==inp:
    print('Entered character is vowel')

else:

    print('character is not vowel')
```

Output:

```
21012021003_AMIT GOSWAMI
Enter the character
g
character is not vowel
```

6) Write a python program to for library charges a fine for books returned late. Following are the fines:

First five days: 40 paisa per day.
Six to ten day: 65 paisa per day.
Above ten days: 80 paisa per day

Code:

```
print("21012021003_AMIT GOSWAMI")
day = int(input("Enter the number of days you are late to submit
Books : "))
if(day<=5):
     amount=day*0.4
elif(day>=6 and day<=10):
     amount =(5 *0.4)+(day-5)*0.65
else:
     amount=(5 *0.4)+(5 *0.65)+(day - 10)*0.80

print("Your fine for {} days is {}.".format(day,amount))
```

Output:

```
21012021003_AMIT GOSWAMI
Enter the number of days you are late to submit Books : 15
Your fine for 15 days is 9.25.
```

7) Write a python program to count odd numbers from given three numbers and display maximum odd number.

Code:

```
print("21012021003_AMIT GOSWAMI")
x=int(input("enter value of x : "))
y=int(input("enter value of y : "))
z=int(input("enter value of z : "))
c=0
m=0
if(x%2==1):
   c+=1
   if(x>y and x>z):
      m=x
if(y%2==1):
   c+=1
   if(y>x and y>z):
      m=y
if(z%2==1):
   c+=1
   if(z>x and z>y):
      m=z
if(c==0):
    print("even number is there")

else:
    print("no of odd number is",c)
    print("greatest odd number is :",m)
```

Output:

```
21012021003_AMIT GOSWAMI
enter value of x : 5
enter value of y : 79
enter value of z : 6
no of odd number is 2
greatest odd number is : 79
```

8) Enter the following statements into the interpreter and note which ones produce an error, give reason for error:

str1 = “welcome”

print str1*2

2) 15 % 12

3) print (18.0 // 4)

4) 7<=7

5) -1<>-1.0

6) print(‘Steve's “ Laptop”’)

Code:

Paste your own code here

Output:

```
21012021003_AMIT GOSWAMI
welcomewelcome

3

4.0

True

    print(-1<>-1.0)
            ^^
SyntaxError: invalid syntax

  print(-5 is -5.0)
False
    print( 'Steve's"Laptop"')
                           ^
SyntaxError: unterminated string literal
```