<u>Practical – 2 : Basic Python Programming</u>

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

<u>CODE</u> :-

print(21012011074)
print("Welcome to UVPCE")

OUTPUT:-

21012011074 Welcome to 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.
"______

<u>CODE</u> :-

OUTPUT:

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

<u>CODE</u> :-

```
print(21012011074)
print(12 + 3 - 4/2 < 3 + 1)
x = (10 * 2) \% 2 << 4
print(x)
```

OUTPUT:

21012011074 False 0 4) Write a python program to display data types of different variables.

CODE:-

```
print(21012011074)
a = 1
b = True
c = "Harry"
d = complex(8, 2)
e = 3.14
f=[1,3.3,5+6]
g = \{1, 2, 2, 3 + 4\}
h = \{1: 'guru', 2: 'patel'\}
i = ("Geeks", "for", "Geeks")
print("The type of a is ", type(a))
print("The type of b is ", type(b))
print("The type of c is ", type(c))
print("The type of d is ", type(d))
print("The type of e is ", type(e))
print("The type of f is ", type(f))
print("The type of g is ", type(g))
print("The type of h is ", type(h))
print("The type of i is ", type(i))
```

OUTPUT :-

```
The type of a is <class 'int'>
The type of b is <class 'bool'>
The type of c is <class 'str'>
The type of d is <class 'complex'>
The type of e is <class 'float'>
The type of f is <class 'list'>
The type of g is <class 'set'>
The type of h is <class 'dict'>
The type of i is <class 'tuple'>
```

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

<u>CODE</u> :-

```
print(21012011074)
a=input("Enter\ a\ character:")
if\ (a=='A'\ or\ a=='E'\ or\ a=='I'\ or\ a=='U'\ or\ a=='a'\ or\ a=='e'\ or\ a=='i'\ or\ a=='o'\ or\ a=='u'):
print("It's\ a\ Vowel")
else:
print("It's\ a\ Consonant")
```

OUTPUT:

21012011074 Enter a character:G It's a Consonant 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(21012011074)
print("'----Late Submission Charge-----
First five days: 40 paisa per day.
Six to ten day: 65 paisa per day.
Above ten days: 80 paisa per day
       -----''')
x=int(input("Enter the day of submission:"))
y = x - 31
if(y>0 and y<=5 and x>31):
  print("Your are",y,"days Late")
  print("As per Guidelines Your total charge is:",40*y,"paisa")
elif(y>5 \ and \ y<=10 \ and \ x>31):
  print("Your are",y,"days Late")
  print("As per Guidelines Your total charge is:",65*y,"paisa")
elif(y>10 \ and \ x>31):
  print("Your are",y,"days Late")
  print("As per Guidelines Your total charge is:",80*y,"paisa")
else:
  print("Your are under timeline So you don't have to pay any charges")
```

OUTPUT:-

```
21012011074
-----Late Submission Charge-----
First five days: 40 paisa per day.
Six to ten day: 65 paisa per day.
Above ten days: 80 paisa per day
------
Enter the day of submission:80
Your are 49 days Late
As per Guidelines Your total charge is: 3920 paisa
```

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

CODE:-

```
print(21012011074)
x=[2,63,9,69,98,200,49,78,79,11]
count=0
max=x[0]
for i in range(10):
    if(x[i]%2!=0):
        count=count+1
        if(max<x[i]):
        max=x[i]
print("No of odd numbers:",count)
print("Maximum Number:",max)</pre>
```

OUTPUT:

21012011074

No of odd numbers : 6 Maximum Number : 79

- 8) Enter the following statements into the interpreter and note which ones produce an error, give reason for error:
 - 1. str1 = "welcome" print (str1*2)

CODE:-

```
print('21012011074')
str1 = "welcome"
    print (str1*2)
```

OUTPUT:-

```
File "C:\Users\gurup\AppData\Local\
print (str1*2)
```

IndentationError: unexpected indent

2. 15 % 12

CODE:-

print('2101201 1074') print(15%12)

OUTPUT:-

Out[11]: 3

3. print (18.0 // 4)

<u>CODE</u> :-

```
print('2101201107
4')
print(18.0 // 4)
```

OUTPUT:

21012011074 4.0

4. 7<=7

$\underline{\mathbf{CODE}}:$

```
print('2101201107
4')
print(7 <= 7)
```

OUTPUT:

21012011074

True

5. -1<>-1.0

CODE:-

print('21012011074')
print(-1 <> -1.0)

OUTPUT:-

```
File "C:\Users\gurup\AppData\L
-1<>-1.0
```

SyntaxError: invalid syntax

6. -5 is -5.0

CODE:-

print('2101201107 4') print(-5 is -5.0)

OUTPUT:

```
21012011074

<>:14: SyntaxWarning: "is" with a literal. Did you mean "=="?
<>:14: SyntaxWarning: "is" with a literal. Did you mean "=="?
C:\Users\gurup\AppData\Local\Temp\ipykernel_19780\1505663641.py:14: SyntaxWarning: "is" with a literal.
    -5 is -5.0
6]: False
```

7. print('Steve's " Laptop"')

CODE :-

```
print(2101201107
4)
print('Steve's
"Laptop"')
```

OUTPUT:

21012011074 Steve's " Laptop"