GANPAT UNIVERSITY
U. V. PATEL COLLEGE OF ENGINEERING
B.Tech CE/IT Semester IV
2CEIT404: Python Programming

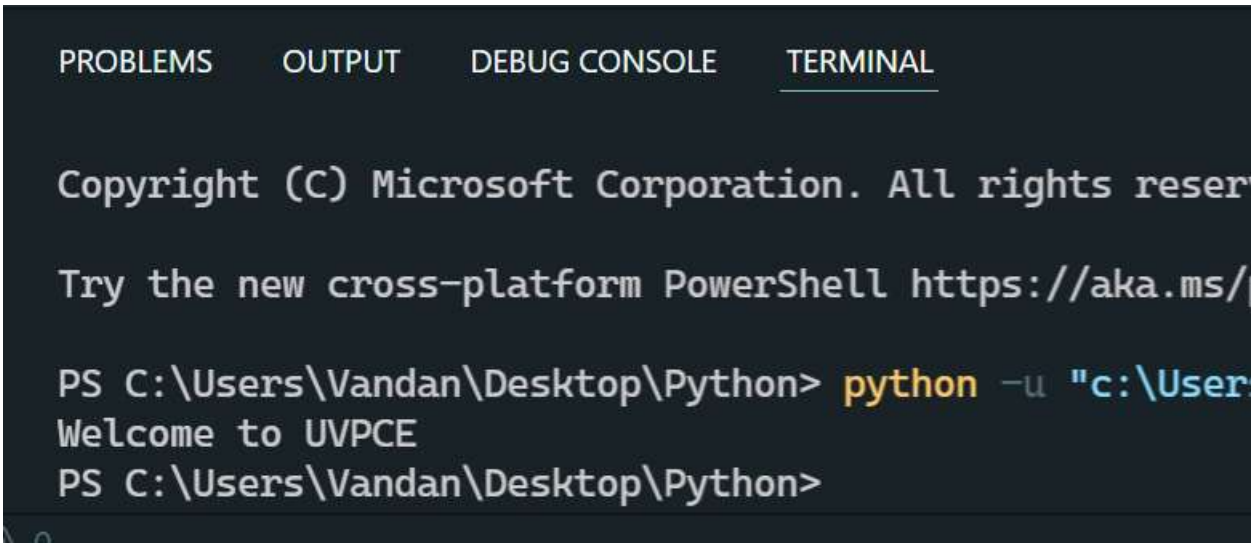
Practical-2: Basic Python Programming

Q1. Write a python program to print "Welcome to UVPCE".

Code :

```
print("Welcome to UVPCE")
```

OUTPUT :



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:

```
Name = input("Your Name : ")
Enrollment_number = int(input("Your Enrollment_number : "))
Branch = input("Your Branch(CE/IT) : ")
Age = int(input("Your Age(Year) : "))
Email = input("Your Email : ")
Mobile = input("Your Mobile number : ")
print("Name: ",Name)
print("Enrollment_no: ",Enrollment_number)
print("Branch:" ,Branch)
print("Age: ",Age)
print("Email: ",Email)
print("Mobile: ",Mobile)
```

Output:

```
PS C:\Users\Vandan\Desktop\Python> python -u
Your Name : Patel Vandan
Your Enrollment_number : 20012011130
Your Branch(CE/IT) : CE
Your Age(Year) : 19
Your Email : vandankumarpatel20@gnu.ac.in
Your Mobile number : 9313017941
Name:  Patel Vandan
Enrollment_no:  20012011130
Branch: CE
Age:  19
Email:  vandankumarpatel20@gnu.ac.in
Mobile:  9313017941
PS C:\Users\Vandan\Desktop\Python>
```

Q3. Write python programs to evaluate the following expressions to demonstrate the use of operator precedence and associativity.

```
12 + 3 - 4 / 2 < 3 + 1
➔ False
X = (10 * 2) %  2 << 4++
➔ We can't concet two similar Operator
```

Q4. Write a python program to display data types of different variables.

CODE :

```python
a = 90
b = 5.3
c = "Vandan"
d = [a,b,1]
e = (3,9,[a,5,6,7])

print(type(a))
print(type(b))
```

```
print(type(c))
print(type(d))
print(type(e))
print(type())
```

Output:

```
<class 'int'>
<class 'float'>
<class 'str'>
<class 'list'>
<class 'tuple'>
```

Q5. Write a python program to check given character is a vowel or not.

CODE :

```
str = input("Enter your character : ")
if(str == "a" or str== "A" or str== "e" or str== "E" or str== "i" or
 str== "I" or str== "o" or str== "O" or str== "u" or str== "U" ):
    print("You Entered a VOWEL!")
else:
    print("You entered consonant")
```

Output:

```
PS C:\Users\Vandan\Desktop\Python> python -u
Enter your character : e
You Entered a VOWEL!
```

Q6. 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 :

```
days = int(input("Enter number of days you are late to submit books : "))

if(days <= 5):
    amount = days * 4
elif(days >= 6 and days<=10):
    amount = (5*0.4) + (days-5)*0.65
else:
    amount = (5*0.4) + (5*0.65) + (days-10)*0.8

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

Output:

Q7. Write a python program to count odd numbers from given three numbers and display maximum odd number.

CODE :

```
x,y,z = 1,2,3
count = 0

if(x%2 == 1):
    count+=1
if(y%2 == 1):
    count+=1
if(z%2 == 1):
    count+=1

if(count == 0):
    print("All values are even")
else:
    print("Total odd values = {}".format(count))
```

Output:

```
PS C:\Users\Vandan\Desktop\Python> python
Total odd values = 2
```

Q8. Enter the following statements into the interpreter and note which ones produce an error, give reason for error:

➔ str1 = "welcome"
print (str1*2)

```
str1="Welcome"
print (str1*2)
```

```
PS C:\Users\Vandan\Desktop\Python> pyt
WelcomeWelcome
```

➔ 2) 15 % 12

```
PS C:\Users\Vandan\Desktop\Python> python -u
3
```

➔ 3) print (18.0 // 4)

```
PS C:\Users\Vandan\Desktop\Pyth
4.0
```

➔ 4) 7<=7

```
PS C:\Users\Vandan\Desktop\Pyt
True
```

➔ 5) -1<>-1.0

Error

Because we have to put arguments between < >

➔ 6) -5 is -5.0

"is" is not a operator,"==" instead of "is"

➔ 7) print('Steve's " Laptop"')

Error

Because ' not ended properly