

Nabarun Kar

CSE 2nd Year 3rd Sem

Roll 33

OUTPUTS

Q1

```
Current Date and Time = 14/01/2021 15:26:37
```

Q2

```
Enter the year: 2021
Enter the month number: 1
January 2021
Mo Tu We Th Fr Sa Su
          1  2  3
 4  5  6  7  8  9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30 31
```

Q3

```
Month names of calendar are:

January
February
March
April
May
June
July
August
September
October
November
December
```

Q4

```
Days in a week are:
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday
```

Q5

```
Enter a year: 2021
First Monday dates of each month are:
Date      Month
4         January
1         February
1         March
5         April
3         May
7         June
5         July
2         August
6         September
4         October
1         November
6         December
```

Q6

```
Function list:
1:  $F(x,y)=F(x-y,y)+1$ , if  $y \leq x$ 
2:  $F(n,r)=F(n-1,r)+F(n-1,r-1)$ 
3:  $F(n)=F(n/2)+1$  if  $n>1$ 
4:  $F(M,N)=1$  if  $M=0$ , or  $M \geq N \geq 1$ , and  $F(M,N)=F(M-1,N)+F(M-1,N-1)$ , otherwise.
5:  $B(m,x)=m!/(x!(m-x)!)$  where  $m>x$ ,  $B(0,0)=B(m,0)=1$  and  $B(m,x)=B(m,x-1)*[(m-x+1)/x]$ 
Enter your choice: 3
Enter the value of n: 5
Result: 3
```

QUESTIONNAIRE

Q1 What is pip?

pip is a package manager for Python.

It is a tool that allows us to install and manage additional libraries and dependencies that are not distributed as part of the standard library. Package management is crucial so pip has been included with the Python installer since versions 3.4 for Python 3 and 2.7.9 for Python 2. The Python installer installs pip, so it should be ready for us to use, unless we installed an old version of Python.

Q2. How do you check whether it is installed or not?

We can verify that pip is available by running the following command in our console:

```
$ pip --version
```

```
pip 18.1 from C:\Python37\lib\site-packages\pip (python 3.7)
```

We should see a similar output displaying the pip version, as well as the location and version of Python. If we are using an old version of Python that does not include pip, then we can install it by following the instructions for our system in the pip installation documentation.

Q3. How do you check which packages of Python are installed?

Pip list and pip freeze will generate the list of installed packages.

The formats are different: pip list will generate a list of all installed packages whereas pip freeze will generate a list of packages that are installed by pip.