Internship Report

EISYSTEMS TECHNOLOGIES
FF-112, Express Greens Plaza, Sector 1
Vaishali – Delhi NCR – India 201010
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Internship Report

On

(Python Programming)

Submitted by
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Priyadarshini college of Engineering Nagpur

Submitted to
Ms. Mallika Srivastava
Trainer, Data Science & Analytics Domain
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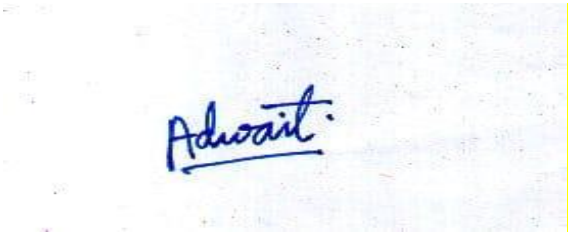
&

Mayur Dev Sewak
General Manager, Marketing & Operations
EISystems Technologies

Student's Declaration

I, ADWAIT RAICH,a student of B.Tech/B.E program,
Roll No. 2021016600946582 of the Department of ROBOTICS AND A.I.
, Priyadarshini College do hereby declare that I have completed themandatory internship in Eisystems Technologies under the faculty guideship of Ms.Mallika Shrivastava ,Department of Robotics And A.I
, Priyadarshini College Of Engineering



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Endorsements

SIGNATURE
Ms. Mallika Srivastava
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SIGNATURE
Mayur Dev Sevak
General Manager,Marketing and Operations
Eisystems Services

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Nomenclature / Notations (if any)

Serial No	Notations	Description

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AS PER REQUIREMENT

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Executive Summary

We completed projects such as Random Password Generator, QR Code Generator, Alphabetical Letter Pattern creation, Sending Email or Whatsapp messages via Python code, Speech Recognition ,Quiz Game, File Handling Project.

It was a thrilling experience to learn from such an experienced faculty. During my internship as a Python programmer, I had the opportunity to gain valuable hands-on experience and enhance my skills in Python programming. Over the course of the internship, I worked on various projects that allowed me to apply my knowledge and contribute to real-world solutions.

My internship provided me with several key takeaways, including:

- Improved problem-solving skills through Python-based solutions.
- Enhanced project management and teamwork abilities.
- Practical experience in data analysis, automation, and web development.
- A deeper understanding of software development principles and best practices.
- **Outcomes Achieved: Python Proficiency, Applied Problem-Solving, Team Collaboration**

Summary of Activities: During the Python internship phase, we engaged in a diverse set of activities:

Training Phase:

- **Python Fundamentals:** Completed a comprehensive Python fundamentals course, covering variables, data types, control structures, and functions.
- **Intermediate Python:** Advanced to more complex topics such as object-oriented programming, file handling, and error handling.

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OVERVIEW OF ORGANISATION

EISystems Services is a leading Indian technology identity with operations across India. EISystems (We call it EISys) offers trainings in Cybersecurity, Machine Learning, Automobiles, Internet of Things, Robotics and Socialmedia for enterprises and student community. Till date we have trained approximately 50000 students and impacted around 2 lakhs students through our various outreach initiatives since our founding.

Our Presence

Some of the colleges where we had already felt our presence are given below:-

Indian Institute of Science, Bangalore

Indian Institute of Technology, Bombay

Indian Institute of Technology, Delhi

Indian Institute of Technology, Madras

Indian Institute of Technology, Kanpur

Indian Institute of Technology, Roorkee

Indian Institute of Technology, Guwahati

Indian Institute of Technology (Banaras Hindu University), Varanasi

and more around 100 colleges

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PROJECT SUMMARY

We made an alphabetical letter pattern and a quiz game . The idea behind this was to create

something different. We used IDLE in python and we had used basic laptop with python 3.0 stable.

Data Flow Diagram / Process Flow

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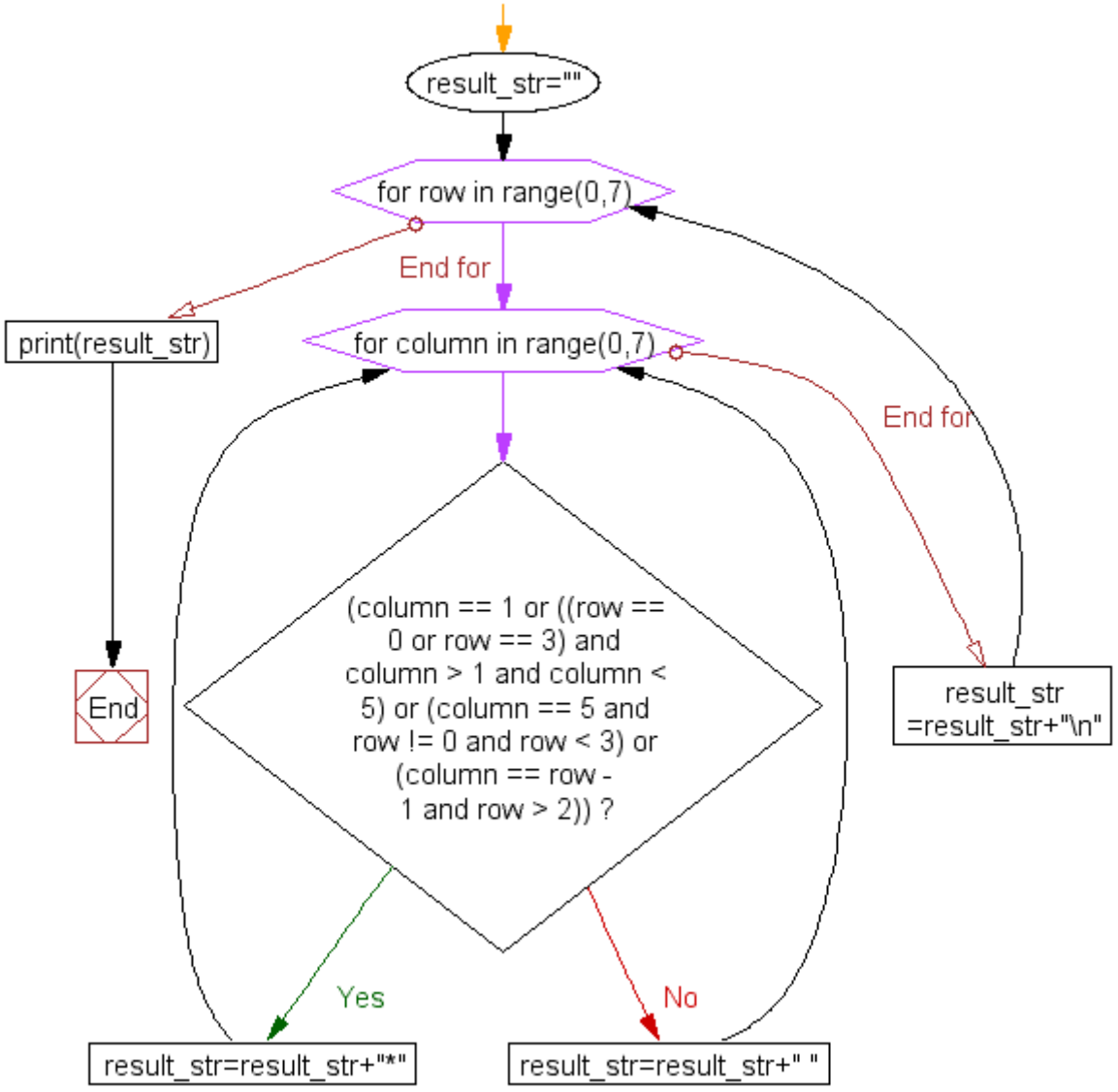

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Code / Program with Supported Screenshots

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Code

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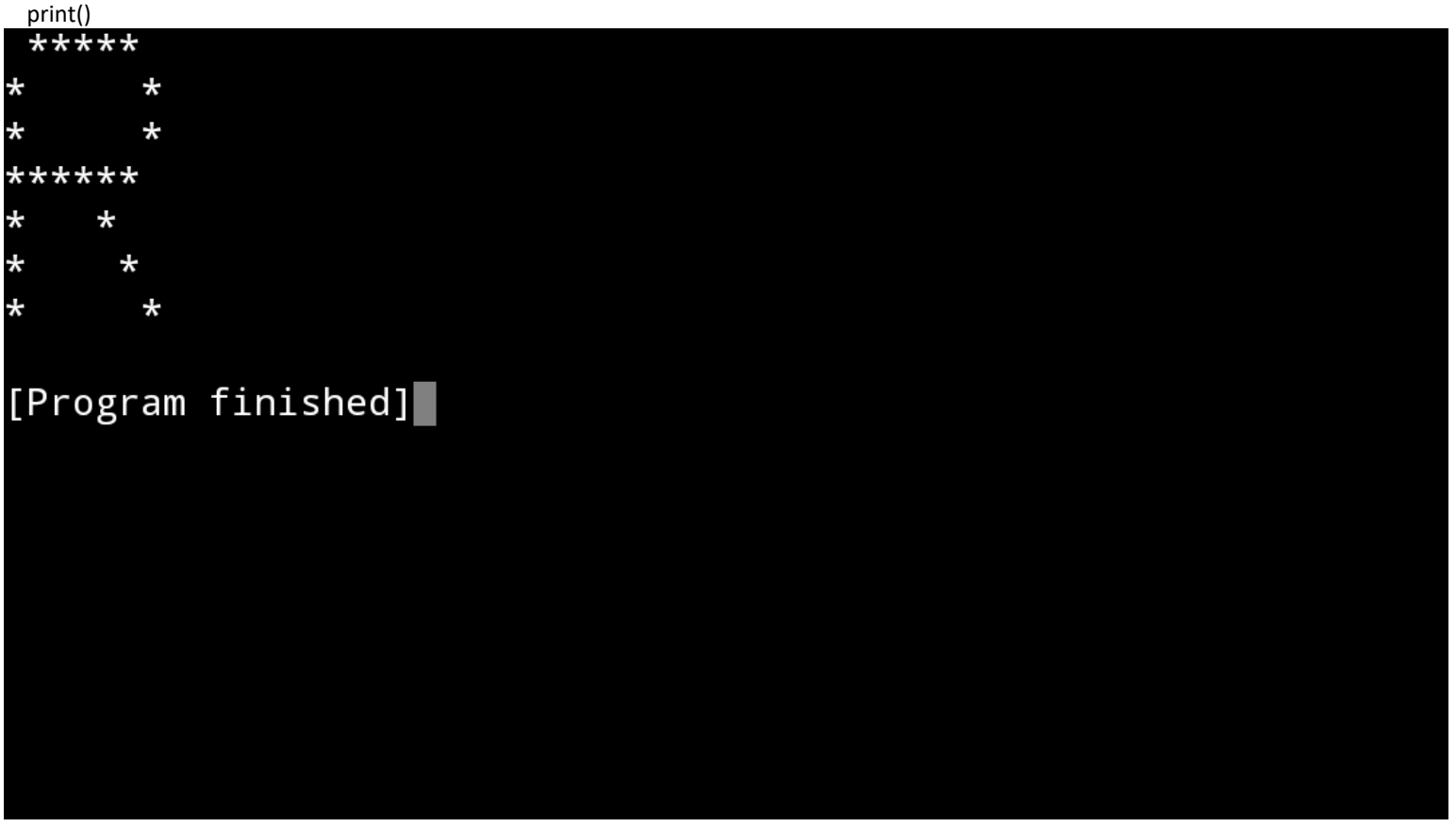
Code for Alphabetical letter pattern creation

```
for i in range(7):
    for j in range(7):
        if (i == 1 and j == 0) or (i == 2 and j == 0) or (i in range(3, 7) and j == 0) or (i == 0 and j in range(1, 6)) or (i == 1 and j == 6) or (i == 2 and j == 6) or (i == 3 and j in range(1, 6)) or (i == 4 and j == 4) or (i == 5 and j == 5) or (i == 6 and j == 6):
            print("*", end="")
        else:
            print(" ", end="")
print()
```



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Code / Program with Supported Screenshots

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Code

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Code for quiz game creation

```
print("---------------QUIZ GAME----------------------")
print("----------Welcome in my Quiz Game-------------")
print("This Game contains 5 Sections :-")
print("Math ,Science ,Physics, English and Python Programming")
print(" ")
print("Each Contains 5 question of 2 marks for each CORRECT Answer ")
print("and -1 for INCORRECT Answer")

ans=input("Do you want to play this Quiz Game?(yes/no)").lower()
if ans=="yes":
   score=0
   correct=0
   incorrect=0
   print("Let's start the game")
   print("-----------(Maths Section)----------------")
   q1=input("1. 121 Divided by 11 is ").lower()
   if q1=="11" or q1=="eleven":
      print("Correct Answer")
      score=score+2
      correct=correct+1

   else:
      print("Incorrecet Answer")
      score=score-1
      incorrect=incorrect+1
```

Code / Program with Supported Screenshots

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Code

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```
q2=input("2. 60 Times of 8 Equals to?").lower()
if q2=="480" or q2=="four hundred eighty":
   print("Correct Answer")
   score=score+2
   correct=correct+1
else:
   print("Incorrecet Answer")
   score=score-1
   incorrect=incorrect+1
q3=input("3. What is the Next Prime Number after 7 ?").lower()
if q3=="7" or q3=="seven":
   print("Correct Answer")
   score=score+2
   correct=correct+1
else:
   print("Incorrecet Answer")
   score=score-1
   incorrect=incorrect+1
q4=input("4.Solve 3 + 6 × ( 5 + 4) ÷ 3 - 7?").lower()
if q4=="14" or q4=="fourteen":
   print("Correct Answer")
   score=score+2
   correct=correct+1
else:
   print("Incorrecet Answer")
   score=score-1
   incorrect=incorrect+1

q5=input("What is 6% of 500?").lower()
if q5=="30" or q5=="thirty":
   print("Correct Answer")
   score=score+2
   correct=correct+1
else:
   print("Incorrecet Answer")
   score=score-1
   incorrect=incorrect+1



print("-----------(Sceince Section)----------------")

q=input("1. Which animal lays eggs? a. Dog, b. Cat, c. Duck, d. Sheep:").lower()
```

Code / Program with Supported Screenshots

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Code

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```
if q=="c" or q=="duck":
   print("Correct Answer")
   score=score+2
   correct=correct+1
else:
   print("Incorrecet Answer")
   score=score-1
   incorrect=incorrect+1

q=input("2.What is Earth’s only natural satellite? a. Sun, b. Mars, c. Venus, d. Moon ").lower()
if q=="d" or q=="moon":
   print("Correct Answer")
   score=score+2
   correct=correct+1
else:
   print("Incorrecet Answer")
   score=score-1
   incorrect=incorrect+1

print("3.Who invented the first functional telephone?")
print("a. Albert Einstein , b. Nikola Tesla, c. Thomas Alva Edison, d. Alexander graham bell")
q=input().lower()
if q=="d" or q=="alexander graham bell":
   print("Correct Answer")
   score=score+2
   correct=correct+1
else:
   print("Incorrecet Answer")
   score=score-1
   incorrect=incorrect+1

print("4.Which cell organelle is also called the powerhouse of the cell?")
print("a. Ribosome, b.Endoplasmic reticulum , c.Cytoplasm, d.Mitochondria ")
q=input().lower()
if q=="d" or q=="mitochondria":
   print("Correct Answer")
   score=score+2
   correct=correct+1
else:
   print("Incorrecet Answer")
   score=score-1
   incorrect=incorrect+1

print("5.The bending of light through a glass prism is called __ ? ")
```

Code / Program with Supported Screenshots

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Code

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```
print("a.Reflection , b.Refraction , c.Diffraction , d.Absorption ")
q=input().lower()
if q=="b" or q=="refraction":
   print("Correct Answer")
   score=score+2
   correct=correct+1
else:
   print("Incorrecet Answer")
   score=score-1
   incorrect=incorrect+1

print("-----------(Science Section)----------------")
print("")
q=input("1. How many centimeters in a meter? a. 10, b. 100, c. 1000, d. 1").lower()
if q=="b" or q=="100":
   print("Correct Answer")
   score=score+2
   correct=correct+1
else:
   print("Incorrecet Answer")
   score=score-1
   incorrect=incorrect+1



q=input("2. How many grams in a kilogram? a. 10, b. 100, c. 1000, d. 1 ").lower()
if q=="c" or q=="1000":
   print("Correct Answer")
   score=score+2
   correct=correct+1
else:
   print("Incorrecet Answer")
   score=score-1
   incorrect=incorrect+1

print("3. How many significant digits are there in the number 0.012 ? ")
print("a. 1  b.2 , c. 0 , d. non ")
q=input().lower()
if q=="b" or q=="2":
   print("Correct Answer")
   score=score+2
   correct=correct+1
else:
   print("Incorrecet Answer")
```

Code / Program with Supported Screenshots

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Code

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```
    score=score-1
    incorrect=incorrect+1

print("4. Which of the following substances is magnetic? ")
print("a. Nickel  b. Aluminum, c. Bismuth, d.  All of these")
q=input().lower()
if q=="a" or q=="Nickel":
    print("Correct Answer")
    score=score+2
    correct=correct+1
else:
    print("Incorrecet Answer")
    score=score-1
    incorrect=incorrect+1

print("5. X-rays cannot pass through what?")
print("a. skin  b. bone, c. meat, d.  wood")
q=input().lower()
if q=="b" or q=="bone":
    print("Correct Answer")
    score=score+2
    correct=correct+1
else:
    print("Incorrecet Answer")
    score=score-1
    incorrect=incorrect+1

print("-----------(English Section)----------------")

print("1. Rohan is so magnanimous that everyone is always ___ to help him in his project.")
print("a. eager  b. enthusiastic, c. reluctant, d.  ignorant")
q=input().lower()
if q=="a" or q=="eager":
    print("Correct Answer")
    score=score+2
    correct=correct+1
else:
    print("Incorrecet Answer")
    score=score-1
    incorrect=incorrect+1

print("2.  I settled __ Canada last year.")
print("a. at  b. in, c. of, d.  on")
q=input().lower()
```

Code / Program with Supported Screenshots

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Code

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```
if q=="b" or q=="in":
   print("Correct Answer")
   score=score+2
   correct=correct+1
else:
   print("Incorrecet Answer")
   score=score-1
   incorrect=incorrect+1

print("3. I do not know what____ my father choose that particular school. ")
print("a. happened  b. controlled, c. made, d. asked")
q=input().lower()
if q=="c" or q=="made":
   print("Correct Answer")
   score=score+2
   correct=correct+1
else:
   print("Incorrecet Answer")
   score=score-1
   incorrect=incorrect+1


print("4.He found the jewellery box empty. All the ornaments, jewels, etc were ____ ")
print("a. protected  b. seized, c. sold, d. stolen")
q=input().lower()
if q=="d" or q=="stolen":
   print("Correct Answer")
   score=score+2
   correct=correct+1
else:
   print("Incorrecet Answer")
   score=score-1
   incorrect=incorrect+1\


print("5.They did not know where they ____ from ")
print("a. had come  b. have come, c. has come, d.  come")
q=input().lower()
if q=="a" or q=="had come":
   print("Correct Answer")
   score=score+2
   correct=correct+1
else:
   print("Incorrecet Answer")
```

Code / Program with Supported Screenshots

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Code

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```
   score=score-1
   incorrect=incorrect+1

print("")

print("-----------(Python Programing Section)----------------")
print("")
print("1. What is the output of the following code?")
print("for i in range(10, 15, 1): print( i, end=', ')")
print("a. 10, 11, 12, 13, 14  b. 10, 11, 12, 13, 14, 15 c. 11, 12, 13, 14, 15,16 d.11, 12, 13, 14,")
q=input().lower()
if q=="a" or q=="10, 11, 12, 13, 14":
   print("Correct Answer")
   score=score+2
   correct=correct+1
else:
   print("Incorrecet Answer")
   score=score-1
   incorrect=incorrect+1

print("2. Tuple is :")
print("a. mutable b. immutable c. unordered d. list")
q=input().lower()
if q=="b" or q=="immutable":
   print("Correct Answer")
   score=score+2
   correct=correct+1
else:
   print("Incorrecet Answer")
   score=score-1
   incorrect=incorrect+1

print("3. set contain __ value :")
print("a. unique b. non unique c. sequenced d.  repeatable")
q=input().lower()
if q=="a" or q=="unique":
   print("Correct Answer")
   score=score+2
   correct=correct+1
else:
   print("Incorrecet Answer")
   score=score-1
   incorrect=incorrect+1
```

Code / Program with Supported Screenshots

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Code

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```
print("4. In Python Character and String are treated as:")
print("a. same b. different  c. array d.  list")
q=input().lower()
if q=="a" or q=="same":
   print("Correct Answer")
   score=score+2
   correct=correct+1
else:
   print("Incorrecet Answer")
   score=score-1
   incorrect=incorrect+1

print("5.Python 3 was launched in which year :")
print("a. December 3rd, 2008 b. December 3rd, 2009  c. December 2rd, 2008 d.  December 2rd, 2009")
q=input().lower()
if q=="a" or q=="December 3rd, 2008":
   print("Correct Answer")
   score=score+2
   correct=correct+1
else:
   print("Incorrecet Answer")
   score=score-1
   incorrect=incorrect+1



print("---------GAME OVER----------")
print("")
print("Total Correct Anwser is:",correct)
print("**********")
print("")
print("Total Incorrect Anwser is:",incorrect)
print("")
print("**********")
print(" Total score : ",score)
print("")
if (score >20 and score<30):
   print(" Your Grade is Average ")

elif (score >=30 and score<40):
   print(" Your Grade is Good ")

elif(score >=40 and score<45):
   print(" Your Grade is Excellent ")
```

Code / Program with Supported Screenshots

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Code

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```
   elif (score >=45):
      print("Your Grade is Super Excellent ")

   else :
      print(" Fail! Better luck Next Time")

   print("Thank You")


elif ans=="no":
   print("Okay bye")
   print("")
   print("You can  Again run the Program")
else:
   print("")
   print("invalid input")
   print("")
   print("Please Again run the program")

input("Press Enter to Exit")
```

Code / Program with Supported Screenshots

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Code

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```
----------------QUIZ GAME----------------------
----------Welcome in my Quiz Game-------------
This Game contains 5 Sections :-
Math ,Science ,Physics, English and Python Programming

Each Contains 5 question of 2 marks for each CORRECT Answer
and -1 for INCORRECT Answer
Do you want to play this Quiz Game?(yes/no)
```

Output with Supported Screenshots

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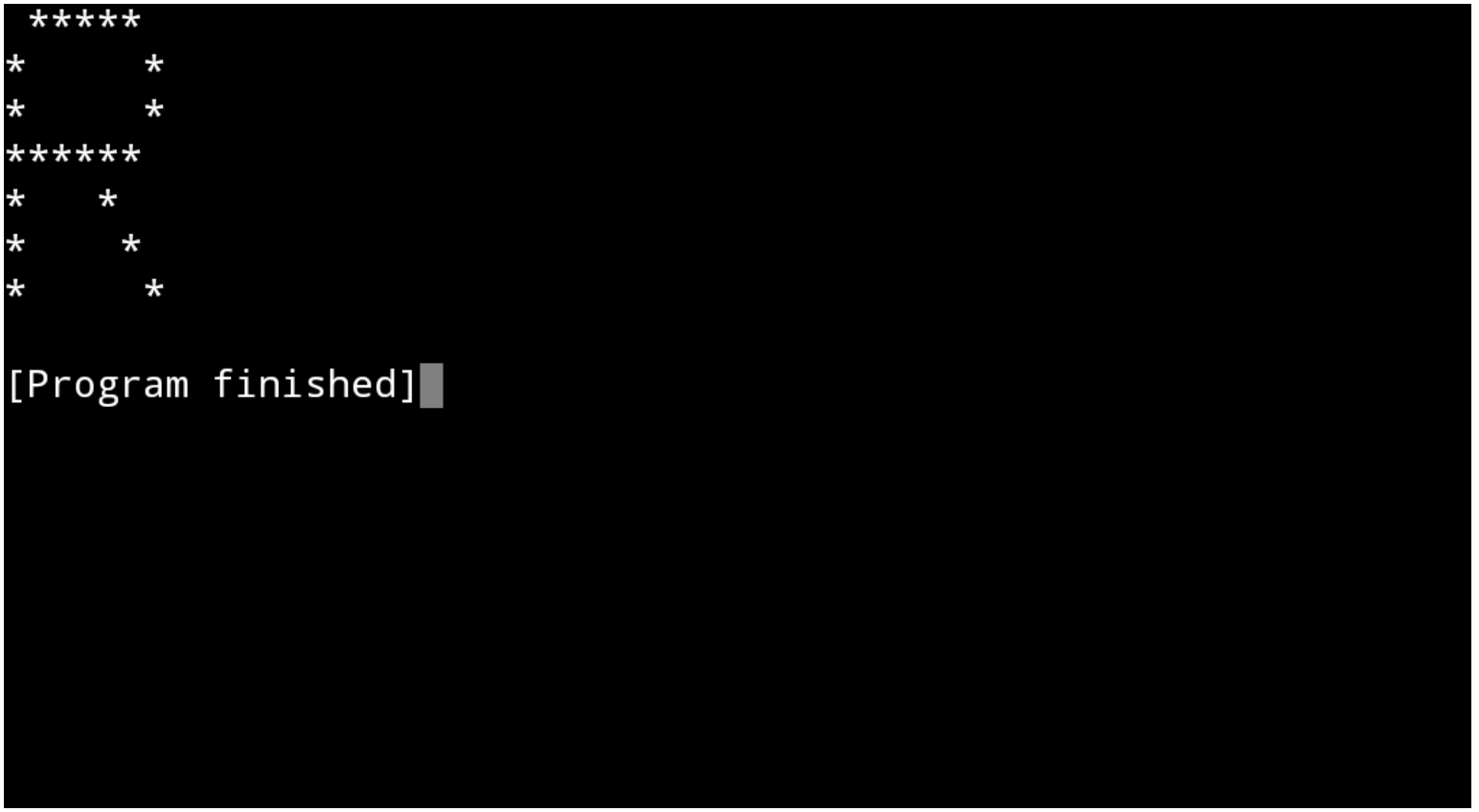

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Output with Supported Screenshots

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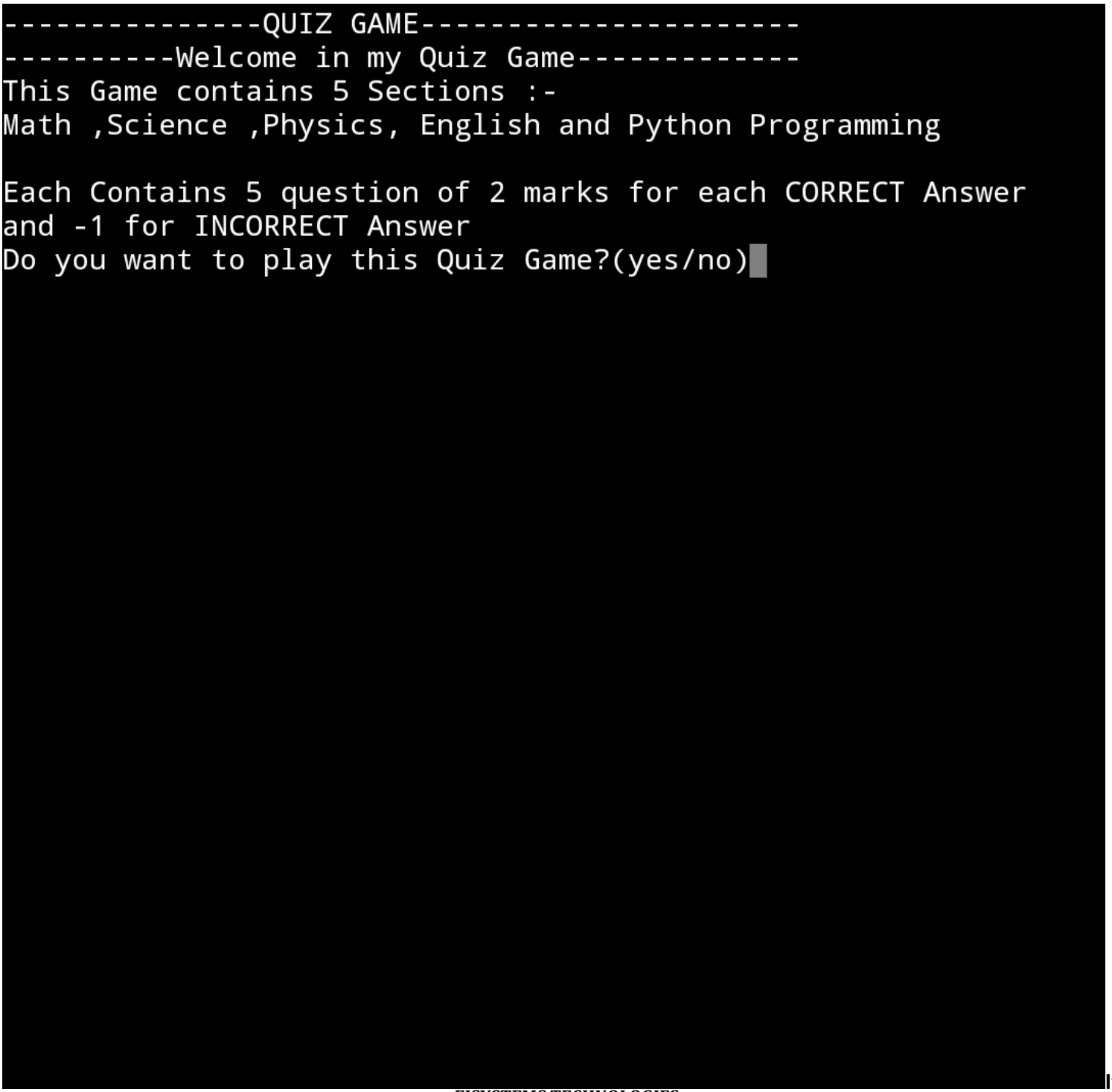

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Images

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Images

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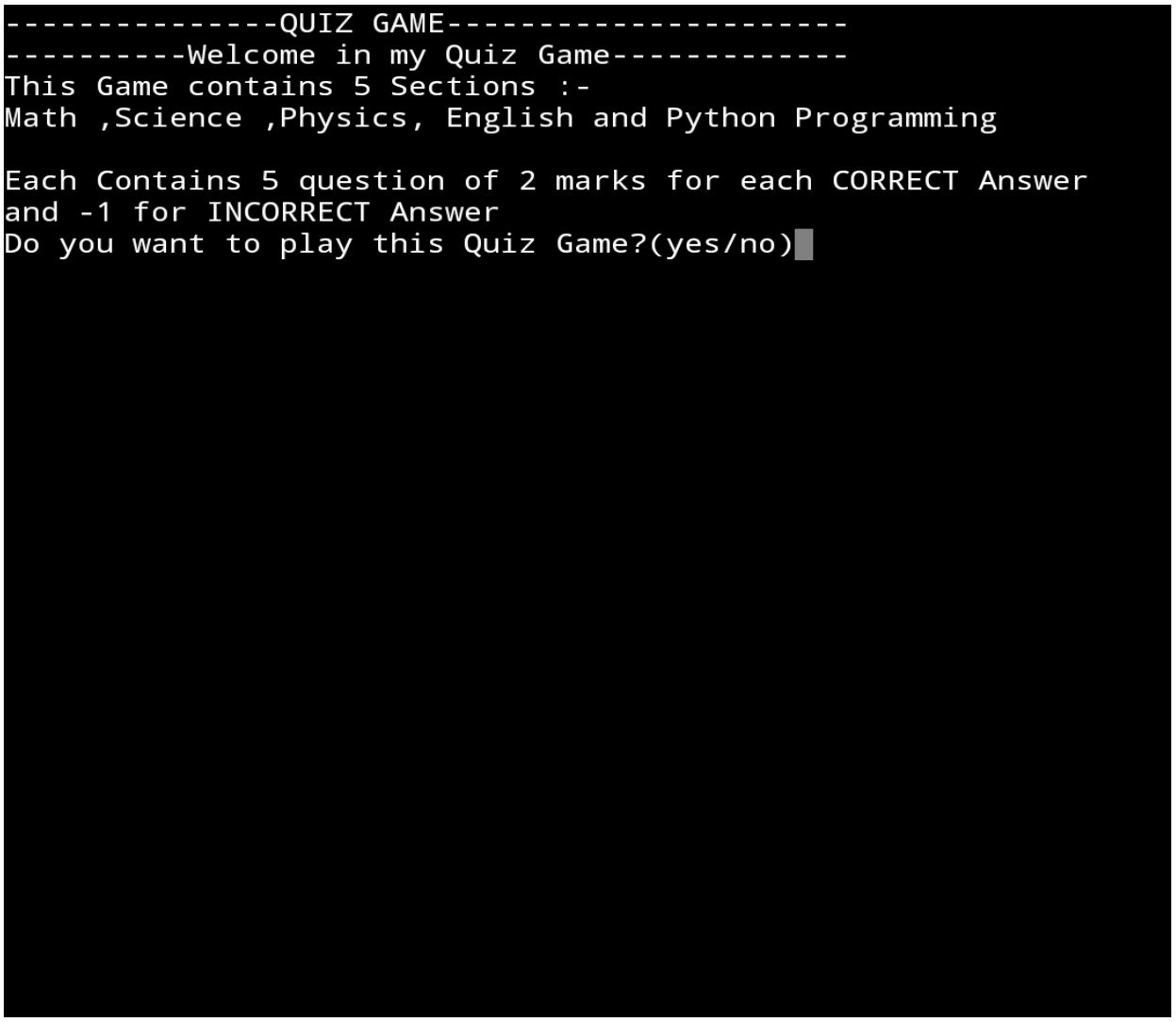
----------QUIZ GAME----------
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This Game contains 5 Sections :-
Math ,Science ,Physics, English and Python Programming
Each Contains 5 question of 2 marks for each CORRECT Answer
and -1 for INCORRECT Answer
Do you want to play this Quiz Game?(yes/no)

References

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TECHNEX IIT -BHU

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Student *Self Evaluation of the Short-Term Internship*

Please rate your performance in the following areas:

1) Oral communication	1	2	3	4	5
2) Written communication	1	2	3	4	5
3) Initiative	1	2	3	4	5
4) Interaction with staff	1	2	3	4	5
5) Attitude	1	2	3	4	5
6) Dependability	1	2	3	4	5
7) Ability to learn	1	2	3	4	5
8) Planning and organization	1	2	3	4	5
9) Professionalism	1	2	3	4	5
10) Creativity	1	2	3	4	5
11) Quality of work	1	2	3	4	5
12) Productivity	1	2	3	4	5
13) Progress of learning	1	2	3	4	5
14) Adaptability to organization's culture/policies	1	2	3	4	5
15) OVERALL PERFORMANCE	1	2	3	4	5

Rating Scale: 5 will be Best while 1 will be Worst

Signature of the Student

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Annexure 1
Daily Activity Report

Week No: 1-8
(1/2/3/4/5/6/7/8/9/10/11/12/13/14/15/16)

Day & Date	Brief Description of Daily Activity	Learning Outcome	Person In-Charge
Day 1	Live Lecture And assignment	Codes Learned,Projects Done	Ms.Mallika Shrivastava
Day 2	Live Lecture And assignment	Codes Learned,Projects Done	Ms.Mallika Shrivastava
Day 3	Live Lecture And assignment	Codes Learned,Projects Done	Ms.Mallika Shrivastava
Day 4	Live Lecture And assignment	Codes Learned,Projects Done	Ms.Mallika Shrivastava
Day 5	Live Lecture And assignment	Codes Learned,Projects Done	Ms.Mallika Shrivastava

Important
A day without training session will be considered for home work / revision purpose, you may mention what work you did on that particular day.

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Annexure 2
Weekly Progress Report

Week No: 1-8

Week(s)	Summary of Weekly Activity
Week 1	INTRODUCTION AND INSTALLATION
Week 2	CREATING PROGRAM,OOP'S CONCEPTS,ABSTRACTION,ENCAPSULATION,CLASSES AND METHODS
Week 3	MEMORY MANAGEMENT,OBJECT CREATION,GARBAGE COLLECTION,MODULES AND PACKAGES,PACKAGE CREATION
Week 4	LIST TUPLE,DICTIONARY,STATIC AND INSTANCE METHODS,POLYMORPHISM,INHERITANCE AND ITS TYPES
Week 5	STATEMENTS AND SYNTAX,ASSIGNMENTS,LOOPS
Week 6	FILE OPERATIONS,CHECK DIRECTORY EXISTS OR NOT,EXEPTION HANDLING,RAISE EXCEPTION,USER DEFINED EXCEPTION
Week 7	FUNCTIONS,TYPES OF PACKAGE,PACKAGE CREATION
Week 8	FUNCTIONS DEFINITION AND CALL,SCOPE,ARGUMENTS,ACCESSING INTERNET DATA AND MANIPULATING XML WITH PYTHON

(1/2/3/4/5/6/7/8/9/10/11/12/13/14/15/16)

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