

SOURCE CODE

'''

The following program is user-friendly, menu-driven program in which the user gets to choose a game he/she wishes to play

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#defining random number guessing game function

def ran_no():

 print("You have chosen to play the RANDOM NUMBER GUESSING GAME!\nIn this game, the computer will generate a random number between 1 and 20 and you have to guess the number, based on the hints given. You will be given a maximum of 5 chances. Are you ready?")

 input("Press enter to begin")

 print()

 import random

 realnum=random.randrange(1,21)

 while True:

 for i in range (5):

 num=int(input("Enter your guess: "))

 if num>20 or num<1:

 print("Wrong input! Enter a number between 1 and 20.")

 elif num<realnum:

 print("The number is between",num,"and 20.")

 elif num>realnum:

 print("The number is between 1 and ",num,".",sep="")

 else:

 print("Congratulations! You won!")

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        break
    if i==4:
        print("Sorry, you lost!")
    inp=input("\n\nDo you want to play again? (Y/N): ").upper()
    if inp!="Y":
        break

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#defining pi value game function

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def pi_value():
    print("You have chosen to play the PI GAME!\nHere you can input a
    number and the value of PI will be displayed based on your input.")
    input("Press enter to begin")
    print()
    pi_nos=['1','4','1','5','9','2','6','5','3','5','8','9','7','9','3']
    while True:
        n=int(input("Enter the number of decimal places: "))
        if n>0 and n<16:
            print('3.',end=' ')
            for i in range (0,n):
                print(pi_nos[i],end=" ")
        else:
            print("Please enter a valid number (between 1 and 15)")
        inp=input("\n\nDo you want to play again? (Y/N): ").upper()
        if inp!="Y":
            break

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#defining quiz function

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def quiz():

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list_ans=["A","B","C","B","B","A","C","A","C","B"]

print("You have chosen to play the QUIZ!\nIn this game, you will have 10
questions. You can enter the option (A or B or C) and for each correct
answer you get 10 points. For each wrong answer, you lose 5 points. So lets
go!")

input("Press enter to begin")

print()

while True:

    pts=0

    print("1.How many nations border India?")
    print("A.7\tB.10\tC.8")

    ans=input("Enter the option:  ").upper()

    if ans==list_ans[0]:

        pts+=10

    else:

        pts-=5

    print("2.Which sea creature has 3 hearts?")
    print("A.Starfish\tB.Octopus\tC.Shark")

    ans=input("Enter the option:  ").upper()

    if ans==list_ans[1]:

        pts+=10

    else:

        pts-=5

    print("3.What is the Italian word for Pie?")
    print("A.Risotto\tB.Lasagna\tC.Pizza")

    ans=input("Enter the option:  ").upper()

    if ans==list_ans[2]:

        pts+=10

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else:
    pts-=5
print("4.Equinophobia is the fear of-")
print("A.Insects\tB.Horses\tC.Cats")
ans=input("Enter the option:  ").upper()
if ans==list_ans[3]:
    pts+=10
else:
    pts-=5
print("5.What is the diameter of the Earth (in km)?")
print("A.13120  B.12740  C.12450")
ans=input("Enter the option:  ").upper()
if ans==list_ans[4]:
    pts+=10
else:
    pts-=5
print("6.Who discovered the cell?")
print("A.Robert Hooke  B.Charles Darwin  C.Gregor Mendel")
ans=input("Enter the option:  ").upper()
if ans==list_ans[5]:
    pts+=10
else:
    pts-=5
print("7.Which city is called the City of Love?")
print("A.New York  B.Rome  C.Paris")
ans=input("Enter the option:  ").upper()
if ans==list_ans[6]:

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        pts+=10
    else:
        pts-=5
    print("8.Japan attacked which part of America, that pulled it to World
War II?")
    print("A.Pearl Harbour  B.Hawaii  C.Myrtle beach")
    ans=input("Enter the option:  ").upper()
    if ans==list_ans[7]:
        pts+=10
    else:
        pts-=5
    print("9.According to Indian history, where did the Portugese come
first?")
    print("A.Pondicherry  B.Mumbai  C.Goa")
    ans=input("Enter the option:  ").upper()
    if ans==list_ans[8]:
        pts+=10
    else:
        pts-=5
    print("10.Which technology is used to record cryptocurrency?")
    print("A.Digital wallet  B.Blockchain  C.Token")
    ans=input("Enter the option:  ").upper()
    if ans==list_ans[9]:
        pts+=10
    else:
        pts-=5
    print()
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        print("Congratulations! You have completed your quiz and your score is
", pts, ".", sep="")
    if pts<100:
        print("The list of correct answers is given below:")
        print("1.7","2.Octopus","3.Pizza","4.Horses","5.12740","6.Robert
Hooke","7.Paris","8.Pearl Harbour","9.Goa","10.Blockchain",sep="\n")
        inp=input("\n\nDo you want to play again? (Y/N):  ").upper()
        if inp!="Y":
            break

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#main program
print("Hey there! What's your name?")
name=input()
print("Hello ",name.upper(), ".",sep="",end=" ")
print("Here are some fun games for you! Check out these to keep your
boredom away :)")
print("1.Random number guessing")
print("2.Pi value game")
print("3.Quiz")
print("4.Exit")
print()
print("ALL THE BEST")
while True:
    ch=int(input("Enter your choice (1/2/3/4):  "))
    print()
    if ch==4:
        print("Aborting Program!")
        break

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elif ch==1:
    ran_no()
    print()
    print("Thank you for playing! Hope you had fun.")
    break
elif ch==2:
    pi_value()
    print()
    print()
    print("Thank you for playing! Hope you had fun.")
    break
elif ch==3:
    quiz()
    print()
    print("Thank you for playing! Hope you had fun.")
    break
else:
    print("You have typed a wrong number! Enter again.")
print("Bye-bye, have a good day :)")
```